

Date Book
For
1931

CALENDAR FOR 1931

1931	S	M	T	W	T	F	S	1931	S	M	T	W	T	F	S
Jan.	...	...	...	...	1	2	3	July	...	...	...	1	2	3	4
	4	5	6	7	8	9	10		5	6	7	8	9	10	11
	11	12	13	14	15	16	17		12	13	14	15	16	17	18
	18	19	20	21	22	23	24		19	20	21	22	23	24	25
	25	26	27	28	29	30	31		26	27	28	29	30	31	..
Feb.	1	2	3	4	5	6	7	Aug.	...	...	...	...	...	...	1
	8	9	10	11	12	13	14		2	3	4	5	6	7	8
	15	16	17	18	19	20	21		9	10	11	12	13	14	15
	22	23	24	25	26	27	28		16	17	18	19	20	21	22
									23	24	25	26	27	28	29
Mar.	1	2	3	4	5	6	7	Sept.	30	31	...	...	...	...	...
	8	9	10	11	12	13	14		...	...	1	2	3	4	5
	15	16	17	18	19	20	21		6	7	8	9	10	11	12
	22	23	24	25	26	27	28		13	14	15	16	17	18	19
	29	30	31	...	...	...	...		20	21	22	23	24	25	26
									27	28	29	30	...	...	...
Apr.	...	...	...	1	2	3	4	Oct.	...	...	...	...	1	2	3
	5	6	7	8	9	10	11		4	5	6	7	8	9	10
	12	13	14	15	16	17	18		11	12	13	14	15	16	17
	19	20	21	22	23	24	25		18	19	20	21	22	23	24
	26	27	28	29	30	...	...		25	26	27	28	29	30	31
May	...	...	...	...	...	1	2	Nov.	1	2	3	4	5	6	7
	3	4	5	6	7	8	9		8	9	10	11	12	13	14
	10	11	12	13	14	15	16		15	16	17	18	19	20	21
	17	18	19	20	21	22	23		22	23	24	25	26	27	28
	24	25	26	27	28	29	30		29	30	...	...	...	...	...
	31	...	...	...	...	...	...		
June	..	1	2	3	4	5	6	Dec.	...	...	1	2	3	4	5
	7	8	9	10	11	12	13		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30		27	28	29	30	31


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Date Book
For
1931

Trade Mark

K & T

Reg. U. S. Pat. Off.



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1931 Thursday 1, Jan.

New Year's Day.

Spent the morning checking unusual atrox in my collection (i.e. S.D. Co, Sonora, N.W. Arizona, New Mexico) Cook having checked the balance.

Also studied rattles and got a good idea of the method of production. For the first time discovered that the rattle is the hardened result of a hardened exudation from the under skin (not a part of the skin as previously supposed) laid down as a granular and laminated material following the corrugations of the skin below. There is much more to be done on this.

In the afternoon listened to the football game and worked on tubular and totalizing sheet forms

Jan. Friday 2, 1931

Spent the evening in miscellaneous
clerical work.

1931 Saturday 3, Jan.

Spent the afternoon and evening
on the annual tabulations and
summaries, a tedious procedure.

Jan. Sunday 4, 1931

Made good progress today on the tables and calculations for the Auto - San Diego County papers. All statistics now copied and most of the tables are ready for the printer. All 1930 statistics are already worked up complete.

Find I have too many papers and ideas under way at once — at least 10 all the way from 10% to 50% complete. This is N.G. too much lost motion and skipping about. Have sorted all unfinished MSS and data into separate envelopes and from now on will try to work on one at a time and finish it.

The next on the list will be the Auto papers.

1931 Monday 5, Jan.

Recd a lot of PZS separates from Schmidt.

Worked on them for a while tonight before and after Amphibia.

Jan. Tuesday 6, 1931

Worked on the PZS separates tonight.

1931 Wednesday 7, Jan.

Spent the evening completing the card cataloging of Schmidt's PZS separates, and filed same. Made some headway transferring Cook's atrox data to sheets. Cook worked on basiliscus and durissus.

Jan. Thursday 8, 1931

Recd 2 more lots of PZS separates
today from Schmidt.

Went to "Michael and Mary" tonight,
so not much done.

1931

Friday 9,

Jan.

Nothing done tonight except a few
atrox sheets finished.

Sturges for dinner; then Philharmonic

Jan. Saturday 10, 1931

Scrupp's Advisory board in the morning. 30 miles. Nothing seen a clear cold day.

Cleared up various odds and ends in the afternoon.

As of this date reports to the NHTS and Zoo have been finished. Exchange list is complete but not transcribed. All last year's statistics are completed.

1931

Sunday 11,

Jan.

Worked from 9 A.M. to 4 P.M. on the County Statistical paper and made some progress.

From 4 to 10³⁰ worked on the P.Z.S. separates received from Schmidt.

Jan. Monday 12, 1931

Amphur tonight.
made out PZS cards.

1931 Tuesday 13, Jan.

movie tonight. Also worked
2 hrs on S.D. Co. paper.

Jan. Wednesday 14, 1931

Left for San Francisco on
5:30 P.M. train.

1931 Thursday 15, Jan.

In San Francisco on
business

Jan. Friday 16, 1931

In San Francisco on business.

1931 Saturday 17, Jan.

Returned from San Francisco on the noon train. Spent most of the afternoon in the office catching up on work. Did some preliminary and preparatory work on the Wash-Oregonus and boas, that is making sheets ready.

Recd from Volk a small L. g. bogliu from Oceanside.

Jan. Sunday 18, 1931

Worked over and completed 30 specimens of oreganus and lutosus from Washington and Oregon, USNM material. Finished this at noon.

In the afternoon worked on Lichanura! I think the desert form is a valid subspecies. Looked at random for scale differences between Trivirgata and roseofusca but found none. Average differences were indicated which might be good in large series, but there are not enough trivirgata available to check this. There are some interesting scale arrangements on the head that can be checked.

Worked on Schmidt PZS carding and completed same including filing.

Worked a little while on the S.D. Co paper, but too tired to do much.

1931 Monday 19, Jan.

Cuyamaca Club directors this evening

Worked on an Arizona - California -
lower California table of snakes the
better to understand distribution

Jan. Tuesday 20, 1931

El Cajon Rotary Club for lunch
Clear cool day 47 miles. Nothing
seen.

Worked on the San Diego County -
Auto paper tonight and made some
progress but it is slow. Never saw
such a difficult paper to coordinate

1931 Wednesday 21, Jan.

Made considerable headway today
revising parts 1, 2 and 5 of the Co
paper. Worked until 10³⁰—

Jan. Thursday 22, 1931

Today I revised the auto
section of the paper by completely
rearranging the order of paragraphs.
~~I~~ Rewrote some. Not much done tonight.
Too tired.

1931

Friday 23,

Jan.

Made some headway with the paper tonight. Made a rough draft of Fig 1.

Recd today from Mrs. Solway
Melling from San Jose, Lower California

5 Amphibians

94 Lizards

14 Snakes (4 of the snakes
received alive earlier in the
year).

This was a rather good
collection and in quite fair
condition. The best find was
3 T. o. hueyi.

Jan. Saturday 24, 1931

Found in the garden a *Batrachoseps*
over $4\frac{1}{2}$ " long.

Spent nearly the entire afternoon
bringing to date the Imperial Co snake
maps, in order to be able to work
on Fig 1. to better advantage.

In the evening finished the
pencil work for the distribution
of snakes as shown in Fig. 1.

1931 Sunday 25, Jan.

Worked today almost exclusively on color variations in zones. This proved much more difficult than I had anticipated and took until 9 P.M. However, it developed well and is now sufficiently elaborated to become a separate and coordinate section of the paper. Did not quite finish it.

Was surprised to find how different the Yaqui Wall-Vallecitos worm snakes are from the coast form. Surely a separate subspecies at least. Only thing that worries me is why is Vallecitos the type locality of what is clearly (by B.G.'s description) the Coast form. Can it be that Le Conte got this at another Vallecitos? Must follow this up.

Salvadora also looks like a good possibility. Only break in the sequence is Cook's specimen from Barrett Dam which is light. (Note: This wasn't from Barrett Dam; Barrett Canyon, Imp. Co.)

Jan. Monday 26, 1931

Finished the color variation
part today ; otherwise very
little done

1931 Tuesday 27, Jan.

Cook told me today of a
yearling Cal. King taken Saturday
at Poway (also Batrachoseps and
Xantusia near there) and a young
Boyles King at Sweetwater Sunday.

Jan. Wednesday 28, 1931

Made a little progress today
on paper.

Woodward's tonight.

1931 Thursday 29, Jan.

Showed ^{McKinley's Birthday} Mr. Korn collection
today.

Belcher's tonight

Jan. Friday 30, 1931

Not much accomplished today.

1931 Saturday 31, Jan.

Today Cook completed all rattlesnakes, including my own and N.H. up to this date. This includes scale counts and rattles. Includes everything in my collection up to 4126.

Took most of the afternoon attending first meeting of the County Hospital advisory board but got a little tabulating done.
Went to a movie in the evening.

Feb. Sunday 1, 1931

Worked hard all day on Appendix No. 1 (Field Notes) This proved a much longer and more tedious job than I had anticipated. Nearly, but not quite finished.

Forwards tonight.

1931 Monday 2, Feb.

Worked on Appendix 2
got about $\frac{1}{2}$ through.

Feb.

Tuesday 3,

1931

Finished first draft of Appendix
2 tonight.

1931 Wednesday 4, Feb.

Went out to La Mesa Rotary club today but got stuck in the mud for an hour in turning around and so missed the meeting. 20 miles. A rainy day; nothing seen.

Move tonight.

Feb. Thursday 5, 1931

Worked tonight on the References
for the County Paper.

1931

Friday 6,

Feb.

Worked on miscellaneous checking.

Philharmonic Concert

Feb. Saturday 7, 1931

Spent the afternoon and evening
on chronological distribution. Made
good progress on this troublesome
item.

1931

Sunday 8,

Feb.

Worked hard from early morning to late evening on the chronological and zonal distribution parts of the County papers. Made some progress but never saw so difficult a paper to coordinate. Hard to get it in order and avoid repetition.

Feb. Monday 9, 1931

Cook told me today that he had caught the following yesterday:

1 Boyle's King 3 mi. E. of Spring Valley DOR M.

1 Red Rattler 5 mi. W. of Jamul large. Found under a rock.

1 Gopher. Same place. Found under a rock, more or less impeded in soil. Disgorged a mouse. Medium. Mouse evidently eaten within a few days.

Went to Los Angeles in the afternoon. A clear cool day. 130 miles, 56 in County. New Rose Canyon road first time over the new pavement. Nothing seen.

" Berkeley Square " tonight

1931 Tuesday 10, Feb.

Returned from Los Angeles this afternoon. Started at 2³⁰; arrived at 6¹⁵. Raining near Whittier and Fullerton; cool and cloudy the rest of the way. 130 miles total; 56 in the county; 38 in daylight. 1 *T. s. infernalis* DOR M San Mateo Creek. Grass + marsh on both sides.

For the first time today noted that the three "*T. o. elegans*" from Laguna Mt are really "*T. o. ordinoides*". Can this be ok? And the other from Jacumba seems to be *atratus*.

Feb. Wednesday 11, 1931

Worked on the garters this
noon. The *Tayana* specimens
are *T. o. ordinoides*; the *Tamasha*
seems to be *elegans*.

1931 Thursday 12, Feb.

Went out to Minnewahua
ranch in the evening. 24 miles
nothing seen but some cussed
toads. It was a rainy day and
evening.

On the way back at midnight
Hyla regilla was heard at
Tamel, Indian Spring, Helix,
Spring Valley and Lemon grove.
Maybe some toads were seen;
cant be sure.

Feb. Friday 13, 1931

Nothing done tonight. Forwards
and Sturgeses at dinner.

1931 Saturday 14, Feb.

St. Valentine's Day

Read over the ms. as completed
to date and made many corrections.
Completed the section on rarity.

Charity Ball tonight

Feb. Sunday 15, 1931

Worked on the S.D. Co paper all day, except went to HK's at noon. Also worked up 4 USNM specimens of Lichanura and r. c. lutosus; Cook making the scale counts.

Got the zonal distribution fairly well closed in today - the hardest in the paper.

Made good headway in the evening cleaning up miscellaneous paragraphs for insertion.

1931 Monday 16, Feb.

Worked over the ms. as usual tonight - the necessary changes seem endless.

F. Stephens called on me this morning. He is 82.

County Hospital Board meeting this afternoon.

Feb. Tuesday 17, 1931

Made some progress this evening
on temperature curves and other
miscellaneous items.

1931 Wednesday 18, Feb.

Made some real headway tonight
in coordination and arrangement;
begin to see daylight at last.

Feb. Thursday 19, 1931

Worked tonight on foot notes

1931 Friday 20, Feb.

Worked on foot notes this noon.

Bancrofts for dinner tonight.

Feb. Saturday 21, 1931

Spent the afternoon and most
of the evening working over the
ms. especially watching punctuation.

1931 Sunday 22, Feb.

Washington's Birthday

The County ms. is finished at last. Spoke to Mrs. Benchley about it yesterday, she made no promises, but said she would take it up with the Board. I will submit it next week.

Cook went over it today and found a number of typographical errors.

Spent the day on the Lichanura paper and made good headway.

In the evening worked on income tax matters.

Xantusia vigilis Field Notes by Sherwin F. Wood.

Clear bright sun - Cold strong wind. 10 X.V.

Collected. Taken with comparative ease in one hours time bet. 12 and 1 P.M. on the Mojave Desert 5 mi. W. of Palmdale, L.A. Co. All were found under dead bushes, in the moist debris under roots or under the bark, even sometimes in holes made by termites. They were very easy to capture because of the coolness prevalent in their surroundings. Only one was found in the dead trunk of a Joshua tree, the rest were obtained from dead "clump bush" a common shrub of the desert.

Feb. Monday 23, 1931

Worked all morning on Appendix 3 and checking zonal data. This Appendix was a new idea last night.

In the afternoon I practically finished the *Pichanura* paper.

Went to a movie "Cimarron" in the evening.

Field notes on Uta stansburiana by Aherwin F. Wood. Collected in back of Glendale at Verdugo Woodlands. Warm sun, hazy sky, cool wind. The Utas were found upon rocks or under rocks and like the others were rather difficult to capture. I found the Emeces (1 spec.) wandering around in the dead leaves.

At this time of year the Utas are found upon the rocks mostly and are sometimes very difficult to capture.

1931 Tuesday 24, Feb.

El Capin Rotary Club for lunch.
A clear warm day. Out El Capin,
back Fletcher Hills. Nothing
seen.

Recd today a garter from
Santa Fe Ranch.

Feb. Wednesday 25, 1931

Did considerable more work
on the hichanura paper tonight.

1931 Thursday 26, Feb.

Submitted the San Diego Co
paper to the Zoo today.

Grant Hotel with Kings, Stuarts
et al tonight.

Feb. Friday 27, 1931

Worked over Tigra - Enyo
Pages again.

1931 Saturday 28, Feb.

Spent the afternoon working on the hichanura paper. Went over the ms. and also mapped all the localities.

People in for dinner tonight.

Cook told me two snakes were taken when the State College students cleared a large San Black Mt. yesterday. An oreganus and a L.g. boylii. The oreganus came in to the zoo today and will be counted in their list.

Mar. Sunday 1, 1931

This morning I went over the hichanura paper once more. Then worked on miscellaneous carding and indexing.

Spent most of the morning completing income tax report.

Wangs for lunch; Forwards for dunnies. Too tired to do any original work today.

1931

Monday 2,

Mar.

Received from Mrs. Arnold
a fine lot of Batrachoseps
found under boards.

Mar. Tuesday 3, 1931

Worked this evening on the
Natural History ledger. Made 240
entries.

1931 Wednesday 4, Mar.

Recd today from P.M. Myers a
Rattles (Pacific) from near San
Marcos.

Submitted the Lichanura paper to
the museum.

Poker Party tonight for Brown & Nelson

Mar. Thursday 5, 1931

Worked on council meeting data.

1931

Friday 6,

Mar.

Entries in the Natural History Society
ledger tonight, until time for Philharmonic

Mar. Saturday 7, 1931

This afternoon and evening I finished the entries ~~the entries~~ in the Natural History ledger. To No 15556. A long tedious job being the entire 1930 collection.

1931

Sunday 8,

Mar.

Spent the entire day cleaning up miscellaneous clerical work.

Transferred Cooks miscellaneous scale counts to the recently devised tabulation sheets and filed them. Finished this.

Made some headway with transfer of rattle data to individual sheets. This and the card entries from the two ledgers are the only work unfinished as of this date as far as miscellaneous filing is concerned. Of course this does not include tabulating such as for rattle paper. The latter is a part of paper preparation.

Worked on the Oklahoma Sonor as this afternoon

Mar. Monday 9, 1931

Recd today from the USNM 10 specimens of *Siagonodon* for examination.

At the meeting of the Fellows of the N.H. Society tonight heard a talk by Dr. E.W. Nelson, former chief of the Bureau of Biological Survey on the "Balance of Nature". His thesis was that there isn't any such thing, but I think he proved there was.

1931 Tuesday 10, Mar.

Went to Los Angeles along today on business. Started at 6³⁵; arrived at 9³⁵; returned 3⁰⁰ to 6²⁰. A clear warm day. Total miles 268. Miles in the country 116.

1 Gopher large D.O.R Stuart grass

Mar. Wednesday 11, 1931

Went to La Mesa Rotary today
at noon. Clear and warm. 24
miles. Nothing seen.

Carters for dinner tonight.

1931 Thursday 12, Mar.

Talked to Lyons Club on snakes
this noon.

Recd today from E. Hoglund
a box large from Suncrest.

Grant Hotel for a dinner dance
tonight.

Mar. Friday 13, 1931

Worked on checking USNM cards recently received, tonight and other miscellaneous work.

1931 Saturday 14, Mar.

Worked all afternoon; first completed transcribing all rattler data from large sheets to individual pages — then worked on the the worm snakes.

Went to a movie tonight.

Mar. Sunday 15, 1931

Spent the morning to good advantage working on the worm snakes. Checked the colors of 47 specimens. In the afternoon I summarized the results to date, looked up the synonymies and generally surveyed the situation.

Assuming that the absence of the supraocular is at least a specific difference we have at least 3 subspecies i.e. San Diego, Cape and S.D. desert. Arizona is more like San Diego than the others but may be intermediate with Mexico.

Went to a lecture on the Einstein Theory at the Open Forum tonight.

1931 Monday 16, Mar.

Today I saw at the zoo a very large boa from the Harrows. The color contrast was still strong more so than in the coast specimens although not so much as the juveniles.

Recd today from Benedict a young ruler from Borego Palm Canyon.

Heard today at the zoo of a young 9 year old who brought in a young rattler in his hands; thought it was harmless.

Worked on worm snake locality records tonight.

Mar. Tuesday 17, 1931

Went out today on a long ride with Savage and NA Eckart of San Francisco. Was in the front seat only part time so trip is not to be counted. Went about 500 miles. Mission Gorge, Santee, Bostonia, Descanso, Julian, The Narrows, Julian, (Lunch) Morena Dam, Campo, Dulzura, Sweetwater Dam.

A clear warm day. While I could observe the road 12 dead snakes were seen. None alive. Only one could be checked with certainty, a large Pacific Rattlesnake at Benigville.

Noted Uta stans. and L. ob. at Morena Dam. (not new. Don't enter in trip book).

1931 Wednesday 18, Mar.

Talked this noon to Women's Committee
on Boulder Dam.

Read today 5 Utas from Sidney Wood
and 4 from Tony Green, the latter from
San Clemente Island.

Mar. Thursday 19, 1931

Talked to Ruys today at noon.

Recd today from Nat. Hist. Soc. Bernard Bailey, Turin Oaks 2 large rulers and 1 koa from Turin Oaks. One of the rattlers was spoiled and was not saved.

Recd from Paul Fields a koa from? and from W.A. Swale a large koa from Ensenada and a small gopher from 10 mi. N. He said the koa was being carried off by a road runner. (hater, not true so not to be entered)

1931

Friday 20,

Mar.

Talked re Boulder to Record Dept
this noon; and re snakes to
Boy Scout Troop 85 tonight.

Mar. Saturday 21, 1931

Checked the proof of the Ichikawa
paper and other miscellaneous
work. Went to a movie in the
evening.

1931 Sunday 22, Mar.

Spent the entire day on a table
of scutellations for the San Diego
County paper to late in the evening.
Had intended to go out in the country
but found it too hot.

Mar. Monday 23, 1931

Tried tonight - company - nothing
done.

1931 Tuesday 24, Mar.

Worked all evening on the general
range table of the San Diego County table.
Finished it, but not copied.

Mar. Wednesday 25, 1931

Sent all the Batrachoseps to
Berry Campbell for study today.

Recd a garter snake med from
Jim Black. Caught in gas plant.

Sent a full lot of collecting
equipment to Achlanze including
a little Winchester.

Tonight I finished the general
range list for the county paper.

Today saw a large Pacific Rattlesnake
from San Felipe which had
regurgitated 2 small rabbits.

1931 Thursday 26, Mar.

Movie Tonight and dinner at
Cuyamaca Club.

Mar. Friday 27, 1931

Worked a short time on the color table tonight.

Benedict gave me a *Clemmys marmorata* from the city (Adams Ave.)

1931 Saturday 28, Mar.

This afternoon I took care of miscellaneous specimens in the basement as Cook was not working. Checked some worn snakes.

In the evening worked on the color - tail length - speed data.

Mar. Sunday 29, 1931

Finished color notes and comments this morning. Spent nearly all morning packing specimens for Weller and Werner.

Spent much of the afternoon and evening in the Enyo - Tigris papers.

Shurty went back to Stanford this afternoon.

Took a little trip in the afternoon with Phil and Gg $\approx 3^{\circ}$ to 4° 40 miles. Broadway Extension, Lemon Grove, Jamaracha, Dehesa, Bostonia, El Capin ave.

1 Gopher small	DOR	Lemon Grove
1 Cal King L	"	Helix
1 Boa L	"	Dehesa
1 Garter L	"	State College
1 Gopher M	"	"
1 Patch Nose M	"	"

1931 Monday 30, Mar.

Worked tonight on the color
descriptions of enyo.

Mar. Tuesday 31, 1931

Worked tonight on the color
description of tigris.

1931 Wednesday 1, Apr.

Spent the evening copying Table 1
of *Enyo-tigris* paper.

Apr. Thursday 2, 1931

Recd today a Boyles King
from Myers from Encanto

Advised by the Zoo they would
publish the R.D. County paper.

1931

Friday 3,

Apr.

Philharmonia tonight.

(Sunday April 12th - Continued)

The Rhinoceroses had even edged black saddles. No red. A few white spotted black scales in the sides of the black.

In the afternoon went north up the road 10 miles, 20 miles round trip. Nothing seen. Windy and warm.

In the evening went up the road 15 miles (30 miles round trip) Cool and quiet. Nothing seen. Total miles for the day 435.

Apr. Saturday 4, 1931

Worked all afternoon and evening
on County paper making final checks
and rearrangements.

Cooke worked in the basement
all day. Caught up.

Got a quiter from Quayle today for
Nat. Hist. Society.

↓

Salvadora	M	DOR	Viejas	Brush + rocks
P.c. annectens	J	"	"	"
"	J	"	Guatay	Fields - Brush
"	J	"	"	"
"	J	caught by side of road	"	"
?	—	DOR	Guatay	Couldn't stop
P.c. annectens	J	"	Pine Valley	Brush - rocks
T.o. hammondi	M	"	"	Creek - Trees.
P.c. annectens	J	"	Laguna J.	Brush -
"	J	"	Clover Flat	Brush - Trees
"	J	"	Campo	Fields - Brush.
S.g. hexalepis	J	Caught on road	Binigville	Brush.
C. ruber	J	DOR	Potrero	Brush
C. "	S	"	Dulzura	"
C.c. oreganus	J	Caught on road	Dulzura	"
"	J	DOR	Dulzura	"
C. ruber	L	"	"	Brush - Fields
S.g. hexalepis	M	"	Indian Spring	Brush
"	L	"	"	"
C. ruber	S	"	Jamacha	"
M. lateralis	L	"	"	Fields

1931

Sunday 5,

Apr.

Today went out for a ride with
 gg P.M.K. Started at 10³⁰ -
 returned at 4³⁰. 127 miles. A
 cloudy day, windy and cool
 in the higher foothills, rather
 sultry elsewhere.

Went out via Broadway, Helix and
 Highway to White Eagle corner;
 returned via Campo, Dulzura and
 Broadway Ext.

Stopped only at one point; lunched
 bet. Campo and Clover Flat. Hunted here
 a short time. Saw horned toad and skellies.
 Phil. shot a lita. Also saw Orcutti. Caught
 a Rana hopping near a stream in
 grass but not in water. Also saw
 skellies at Pine Valley Grade and
 Orcutti at Indian Spring.

/// Snakes seen as per opposite page.

Spent the rest of the day, morning
 and evening working on the County
 paper.

Apr. Monday 6, 1931

Recd today from Myers a
boa from Lower California and from
Nash, garage a young Calif. King.
Jess and Amphibia tonight.

1931 Tuesday 7, Apr.

Today recd from Ayres a large Boa from Tecate.

Once more went over the County paper to weed out errors.

(April 14th Continued)
left Las Vegas at 3³⁵.

1 Scute L. D. OR Brush 11 mi. S. Las Vegas.
Sg. hexalepis L DOR Mountain Pass Brush-Rocks
Sg. hexalepis S DOR Wheaton Spring " "

It was sundown at Baker.

C. cerastes L DOR 20 mi E. of Midway
Sand and light brush.

heights on at 6³⁰ 10 mi E. of Midway.

R. lecontei 5 mi E. of Helendale. M DOR Desert

C. cerastes 4 mi W " " L DOR Desert

The night was now cool and slightly
windy. A little too cool for snakes.

After leaving Helendale we passed up
several good prospects if we desire to make better
time. Had screen fixed on car at Barstow
having previously had much trouble. Quite
cold at Cajon summit. Didn't watch the road
very close from here on. Reached Riverside at 10³⁰
Miles from Las Vegas 235; Total for the day 301
Heard Hylas and B. californicus at Victorville

Apr. Wednesday 8, 1931

Exact localities from Schlange

S.okesus 16 mi. E. Desert Center

8 " S " "

D.d.dorsalis 9 " E " "

C.t.tessellatus 9 " " "

C.cerastes 8 " " "

P.platyrrhinus 9 " " "

M.g.frenatus 9 " " "

Placed the S.D. County paper in the printers hands this afternoon. Discussed with him at some length type, cuts, binding paper and other details. Will not be a particularly high class job because of necessity of cutting cost to a minimum.

Went to hear Ferrero tonight.

1931 Thursday 9, Apr.

Music. checking tonight.
Packed a shipment for Matthey.

Meeting of the directors of Nat.
Hist. Soc. this afternoon.

A large *L. n. roseofusca* was bitten
in the tail by a young Pacific Rattlesnake.
Observed it for several days. There was
no effect.

Apr. Friday 10, 1931

Packed for tomorrow's trip this
Evening

Note: Mileages with this Cad are given
herein as recorded on the speedometer
and are not corrected, notwithstanding
they are probably about 8% low.
The exact figure will be determined
later. Correction 196

Saturday April 11 Continued

P.c. ~~annectens~~ ^{Riverside} DOR Juv. Orchards (Saved No. 1)
(San Bernardino 12 1/2 mi.)
M. ^{Brush} ~~lateralis~~ DOR L Devore (Cajon Pass) River.
P.c. ~~deserticola~~ DOR L Bryman Greasewood Savch.
C. ~~cerastes~~ DOR L Wild Desert (saved,
Contained a mouse).

P.c. ~~annectens~~ ~~deserticola~~ DOR S Wild Desert
G. agassiz alive on roadside Wild Desert.
U.s. ~~stejnegeri~~ alive under paper partly dormant. Todd.
Took an evening trip out past Daggett.
Starting at 7¹⁵ returning at 8⁴⁵ P.M. Cool and
slight breeze. Miles 46 Total for the day 240.
Cerastes S. caught crossing the road at Newbury
Cerastes L. DOR Gale. Still squirming.
Was not there on the way out.

1931 Saturday 11, Apr.

This morning started for Hoover Dam at 11¹⁸ AM. Weather warm and part cloudy. Breezy. Clear inland. Went via Highgrove where I exchanged reptiles with Garner. He had nothing unusual. He had three boas which were quite distinctly but not evenly marked. These were from Box Springs Canyon. On one the stripes were almost yellow.

Reached Barstow at 6⁴⁵. Cool and breezy. Miles 194.0. To Co. line 63.9

M. f. frimatus	DOR L	Vista	Fields
M. lateralis	DOR L	"	Fields-Brush
S. g. hexalepis	DOR L	Bonsall	Brush.
M. f. frimatus	DOR L	"	Fields-Brush
M. lateralis	DOR L	Miss. Valley	Brush.
P. c. annectens	DOR M	" "	"
P. b. blainvillii	DOR	Alvz Xing Road	Rosedale Brush.
M. lateralis	DOR L	Rosedale	Brush.
P. c. annectens	DOR L	Escondido	Orchards
L. g. boylii	DOR L	Bonsall	Brush-River
T. s. infernalis	DOR M	"	" "
B. c. halophilus	DOR L	Rainbow	Fields
L. g. boylii	DOR L	Temecula	Fields
P. b. blainvillii	DOR	Elsinore	
M. f. frimatus	DOR L	"	Lt. brush & wcks.
P. c. annectens	DOR	Juv Val Verde	Fields

continued Apr 10

Apr. Sunday 12, 1931

Was cold last night at Barstow. Clear and cool this AM. Took a warming up run west 10 miles but saw nothing.

Started for Las Vegas at 9 AM.

C. cerastes L DOR $2\frac{1}{2}$ mi. NE of Barstow.

Had eaten a mouse. Desert.

P. c. deserticola L DOR 7 mi. E of Barstow =
5 mi. W. of Yermo Rocks.

R. lecontei S DOR $3\frac{1}{2}$ mi W. of Yermo
Sand and sage brush. No red in this
specimen

Hunted for a short time at mid way at 10²⁰. Clear and warm. Got a whiptail and Gopherus shells

S. occipitalis L DOR Desert 4 mi E. of mid way

Callys were seen at 301, 304, 312, 314, 318 (Baker = 312)

P. c. deserticola M DOR Halloran Spring Brush-Sand

Hunted here a short time and got cally, uta,

leopard. Uta were quite plentiful on the rocks.

Stopped for lunch at Yucca Station and
saw 1 Uta.

P. c. deserticola L DOR Mountain Pass Light Brush.

Cally seen alive at Wheaton Spring.

Hunted for a short time at the Cal-Nev line. Windy-warm.
got 1 c. ~~boylei~~ baileyi. *P. platyrhinos* 16 and 12
mi. S. of Las Vegas. Arrived at Las Vegas at 3³⁰ Windy
and warm. Miles from Barstow 150 (Continued April 3d)

1931 Monday 13, Apr.

A clear moderately warm morning but very windy. Started toward Glendale at 8⁴⁰ AM. New 2A

1 *Phyllorhynchus* 4.7 S. of Glendale. DOR M

1 *P. c. deserticola* 3.5 " " DOR L

Both on high mesa with thick brush and rocks. Turned around of condition of the road at 17 mi. beyond Glendale

Stopped for a short time to hunt at Glendale. Hot and very windy. Saw some lizards, probably *Crotalus* but couldn't get them. Ate lunch here.

Hunted at several points along here and found lizards scarce and wary. Got 3 *Uta* 40 mi from Las Vegas. This was a wash on a mesa.

1 *Hypsiglena* LDOR 27 mi from Las Vegas. Light Brush. Had swallowed a lizard.

Got 1 *Uta* at 21 mi from Las Vegas.

Returned at 3³⁰ Still very windy. Miles 128 Took a run south before supper 14 miles. Nothing seen.

After dark took another run south between 7³⁰ and 8³⁰ Clear and cool. Nothing seen 30 miles. Total for the day 172

Apr. Tuesday 14, 1931

Started from Las Vegas for Boulder Dam at 8⁵⁰. A clear cool day - warmer in the valleys. Hunted in mesquite hummocks 5 mi from Las Vegas and got a whiptail and Uta. lizards don't seem to be as common as might be expected.

Drove around Boulder City but saw nothing.

At Vegas landing; saw the skin of a rattler (no head) caught there. Light brown punctated ground and dark brown blotches quite evidently a stephensi. Tail had dark but not black rings. Went down through gorge in a boat.

Drove to Lewis Camp and then in S.P. Car to substation camp. Then walked 1/4 mile to rim above dam site. At the rim saw Uta, Cally and a large black lizard? Left after lunch at 1⁴⁵. Cally 15 mi from Las Vegas. As usual^{ly} more lizards were to be seen in the rocks, but were rather disappointing everywhere.

Left for home at 3³⁵. Miles to Vegas Wash and Boulder and back to Las Vegas 66 miles

(Continued on Page April 7th)

1931 Wednesday 15, Apr.

Started home from Riverside at 7⁵⁰
A clear cool morning.

P. c. annectens	S	DOR	March Field, fields.
P. blainvillii			Peris
R. lecontei	L	DOR	4 mi. N. Elsinore Brush & Rocks.
"	"	2 "	" "
B. c. halophilus		DOR	Temecula.
P. blainvillii		Temecula	grade alive
"		County line	DOR.
L. g. hexalepis			
P. c. annectens	S.	DOR	Rainbow fields
"	L	"	Bonsall " and wsi
Roseofusca	S	"	" Fields - wsi
M. lateralis	L	"	" "
P. c. annectens	S	"	" "
E. g. hexalepis	S	"	" Brush.
L. g. kuylii	M	"	Vista Fields
"	M	"	" "
M. lateralis	L	"	Rosedale Brush.

Reached San Diego at 11¹⁵ a clear
warm day. Miles today 114
Total for trip 1044

Recd a dead mink neck from Allan. S.D.

Apr. Thursday 16, 1931

Drove back from Los Angeles
today with Mr. Kabor.
Arrived at 8 P.M.

1931 Friday 17, Apr.

Worked on misc.

Movie tonight

Apr. Saturday 18, 1931

Worked hard all afternoon and evening. Caught up on miscellaneous work. Also made a little progress with worm snakes.

1931 Sunday 19, Apr.

Went to the office in the morning.
In the afternoon checked worm snake
coloss.; milked 41 rattle snakes and
then started the actual composition of
the worm snake paper. Made good
progress by evening.

Apr. Monday 20, 1931

Recd from Allan a ring-neck
from San Diego and from Ayres
a young Baylester King.

Murié tonight.

1931 Tuesday 21, Apr.

Noted the following from
Schlantz today all taken from 5
to 12 miles east of Desert Center
along the highway.

C. atrox (2)

S. obesus (1)

D. dorsalis dorsalis (3)

C. vizlisenii (1)

P. platyrhinus (1)

U. graciosa (2)

Recd today from P.M. Myers
a large gopher from Indian Spring.

Apr. Wednesday 22, 1931

Went out this evening - Allison's

Plurin arrived today from San Francisco but I didn't get in touch with him.

1931 Thursday 23, Apr.

Worked on final page proof of
Boa paper tonight.
Talked to Alvin about his trip
this morning.

Apr. Friday 24, 1931

Got the following locality records
from Bogert

C. Scutulatus	Farmington
C. wislizenii	"
A. e. occidentalis	Lovely Springs.
C. collaris	"
C. scutulatus	"
C. cerastes	" (found in the rocks).

Movie tonight

Talked to Plewin this morning. He
left \$180⁰⁰ in cash with me
from which is to be deducted \$7²⁸
for 1000 shot shells which I gave him

1931 Saturday 25, Apr.

Received today the first galley
of the San Diego County paper.
Slevin left on the Death Valley
expedition today.

Worked all afternoon on the
worm snake paper.

Went out to dinner (Hodges).

Apr. Sunday 26, 1931

Raining hard this morning. Spent a part of the morning reading proof on the county paper and the balance on the worm-snake paper.

In the afternoon finished the first draft of the worm-snake paper (4 1/2 hand written pages).

Finished a lot of miscellaneous filing etc tonight. Completed everything except reading proof on County paper.

Ring record from S.F. Wood Encinal Canyon, Santa Monica Mts., Malibu L.A. Co., Calif.

M. f. frenatus ate skulls and utas in captivity.

1931 Monday 27, Apr.

Spent ^{Grant's Birthday} the evening checking
County proof

Apr. Tuesday 28, 1931

Spent evening reversing type -
written copy of worm snake
paper.

1931 Wednesday 29, Apr.

Checking county proof.

Apr. Thursday 30, 1931

Entertained for Hodges

1931

Friday 1,

May

Still checking the county list.
Recd a large gopher from Bellmann
from Rose Canyon

May Saturday 2, 1931

Returned the first galley of the county paper to the printer this morning.

Rec'd the first copy of the Boa paper.

Very tired this afternoon of city business. Miscellaneous thing etc.

1931

Sunday 3,

May

Spent most of the day working on the Hoover Dam trip notes, which were completed at least in preliminary form.

Too much politics to go out.

May Monday 4, 1931

Recd today from Bennett a medium patch-nose from Flinn Spring

(Sunday May 10th Continued)

This last is 2 mi. S. of Seeley at the New River.

- 1 Gopher M. Fields 3 mi. W. of Seeley.
 - 1 Whiptail and 1 Chuck DOR halfway up the Mt. Spring grade.
 - 1 longnose L DOR 1 mi. E of Mt. Spring (rocks).
 - 1 Gopher L alive by the road side. Brush Boulevard.
 - 1 Gopher M DOR. White Star garage Lt. Brush.
 - 1 Gopher L DOR Live Oak Springs (River).
 - 1 Rhinoceros L DOR " " Heavy Brush.
 - 1 ? Probably garter lost on the roadside at Descanso.
 - 1 Pacific Rat M DOR New Key's Grade Brush & rocks.
 - 1 Cal. King L DOR Alpine (Creek).
 - 1 Gopher S. DOR DOR Lakeview (fields).
- Arrived home at 6 P.M.
- Total miles for the day 210
 miles in S.D. Co. 80
 (add 60%)

1931

Tuesday 5,

May

Started today to work on Tigris - Enyo again.

Recd the following locality records from C. M. Bogert

Uma notata 5 mi. E. of Hooying Springs near
Wilsonia P.O.
 2 mi. E. of the County line
 in San Bernardino Co. (Evidently
 South of El Mirage)

C. c. mitchellii (red) between Cushmanberry
 Springs and Lake Baldwin, S. B. Co.
 also Dead Man's Point, west of Lucerne Valley
 P.O.

May Wednesday 6, 1931

Went to Julian and back today with Peckham and Ruffin to see proposed Julian and Hurlburt grove lines.

A clear day in the back country and moderately warm; high fog at the coast. Started at 10 AM; returned at 5:30. 132 miles. Had car trouble at Pine Hills due to short circuit in battery lead which delayed us about 2 hours.

Itinerary: Broadway ext, Spring Valley, Helix, Grossmont, El Cajon, Ramona, Goose Valley, Ballena, Julian, Pine Hills, Julian, Cuyamaca, Hurlburts, Old Viejas grade, Alpine, La Mesa, Broadway. No hunting done except for a few moments while waiting for tow car at Pine Hills.

- 1 *Oreganus* L DOR (squining) Cuyamaca ^{Trees}
- 1 *Ruler* S Caught at Roadside Viejas (brush).
- 1 *Patchnose* L DOR near foot of Viejas (brush)
- 1 *L. californiae* L DOR Alpine (brush)
- 1 *R. lecontei* L DOR Alpine (brush)
- 1 *Allegator* on road Descanso
- 1 " DOR Willows.

A few stallions and itas were seen but nothing of interest.

1931 Thursday 7, May

Went to Tia Juana this evening. Picked up a fine mixed King alive at Otay. But trip not to be counted as we saw several things that might have been dead snakes, but could not stop.

Quaid writes re *Insatini schescholtzii* found at Barrett. Was found behind a cabin next to a bank. "12" space here was filled with leaves and was wet.

Locality Record: Gila monster,
Date, Ariz.

Recd today 55 more rattlers
from Perkins.

May Friday 8, 1931

Milked rattlers this noon. Handled a good many but got a disappointing supply of venom. Buck (of West Africa) was present.

(Saturday May 9th Continued)

Saw at least one and possibly two or three other live snakes which were lost.

Miles in the County 80.2

To Brawley 126.8

Night Trip 84.5

Total for the trip 291.3

(Add 6%).

Had one blow out at Pine Valley
Certainly a very disappointing evening.

1931 Saturday 9, May

Today at 1³⁰ P.M. started for Brawley. A clear warm day. Hot on the desert and quite warm in the back country. Principal purpose of the trip was to secure photos for county paper.

Hunted for a few minutes at Mt. Spring. It was then warm and clear. lizards seemed quite plentiful. Saw orcutti, meansii, skellies, litas, whips and chucks. Took a few. Also a collared lizard. but a fine check in the rocks and not able to get it out. Arrived at Brawley at 7 P.M. Practically no wind now or later.

- 1 Rhinocellus L DOR alpine Brush.
- 1 mitch L DOR Terrinitos "
- 1 Gopher L DOR Live Oak Springs Br-Rocks
- 1 Horned Toad alpine DOR.
- 1 " " Buckmans (alive)

At 8 P.M. we started north toward the county line. Had a tough and fruitless time, although the weather was ideal. Probably due largely to road under repair and a large fresh embankment along side most of the way.

- 1 Phoebe L DOR 27 mi N. of Brawley
- 1 Gopher L DOR 29 mi. N. of Brawley

(Continued under May 10 31)

May Sunday 10, 1931

This morning at 9⁵⁰ ^{Mother's Day} (quite warm) started from Brawley to the Sand Hills via Holtville.

Two whiptails (1 alive, 1 dead) 6 mi. NW of Holtville. Alfalfa both sides.

1 Gopher L. DOR Holtville (saved head).

1 Gopher L DOR " (saved entire)

1 Gopher S DOR 3 mi. E. of Holtville (fields)

1 Red Back M DOR 3 " " " " "

1 Dip DOR Date City

Dips were plentiful at 30.5. Creosote bush association. They are as thick here as in mesquite. They take refuge quickly in ground holes. Seem to like to get on observation posts.

Turned around in the Sand Hills at 48.3 Calisaurus 1 mi. ~~E~~ of Midway Well.

1 Shore hose M DOR 1 mi. W. of Midway Well. (desert)

This was on the Calexico road.

Dips and callegs 9 mi ~~W~~ of Midway Well
Lunched at Calexico at 1¹⁵

Whiptail at Calexico.

1 Gopher S DOR Fields 3 mi. E of Signal Mt.

1 Arizona M DOR Fields 6 mi N " " "

1 " L DOR Brush (River Xing) 7 mi. " " "

(Continued under May 4th)

1931 Monday 11, May

Went to Millikan's lecture
tonight

locality record
S. magister Desert Center.

May Tuesday 12, 1931

Received today a Boyle's King
from P.M. Myers caught at Bonita.

Gave dinner tonight.

1931 Wednesday 13, May

Gave dinner tonight

Received a very badly spoiled
boa from Bancrofts taken just
west of Myers Creek Bridge. Was
gray and not particularly
well striped - not as much
as those from Yagui Well.

May Thursday 14, 1931

Worked on second galley
proof, county paper.

1931

Friday 15,

May

Out for dinner.

May Saturday 16, 1931

Spent nearly the entire afternoon checking second galley proof of county paper. Also checked the Meling collection.

Out for dinner.

1931 Sunday 17, May

Milked 40 rattlers this morning.

Finished checking the San Diego County second gallery proof.

Noted a *C. t. basiliscus* from Snake King from Colima, Mexico. bright green, clear markings, red internal diamonds quite clear and bright. A pretty snake.

Miscellaneous filing and recording, afternoon and evening.

May Monday 18, 1931

Today I saw at the ^{Peace Day} NHTS a large
boa from Rincon, too far gone to
preserve.

1931 Tuesday 19, May

Went to The Narrows today with Peckham, Ruffin and Kobler. Started at 11²⁰, returned at 6¹⁵. Clear and cool in town and in the mountains; warm in the valleys and desert. 168 miles. El Cajon Ave, Highway, Descanso, Cuyamaca, Julian, The Narrows, Julian, Ramona, Lakeside, Broadway.

1 Cal King L DOR Flinn Spr. Brush

1 Gopher L Caught on the road at Descanso Brush.

1 Gopher J Caught on the road at Cuyamaca Grass

1 Patchnose med DOR 1/2 way down Banner Grade Brush

1 Patchnose L DOR Foot of Banner grade Brush

Coming back we had to travel so fast that we could not stop for identification of specimens. Saw three one at top and one at bottom of mussey grade and one at Riverview.

Saw a whiptail at the Narrows, a magister at foot of Penterac Canyon, an alligator at San Felipe and picked up a horned toad at Descanso. Lizards were plentiful in San Felipe wash at 4³⁰.

May Wednesday 20, 1931

met Paxton C. Hayes at the Zoo at noon and gave him 6 snakes in partial exchange for the 12 rattlers given me last autumn.

Too tired to do anything tonight.

1931 Thursday 21, May

Out tonight

May Friday 22, 1931

Out tonight

1931 Saturday 23, May

Sick this afternoon; nothing done.

Recd a gopher from A. L. Benedict caught at Old Town.

May Sunday 24, 1931

Worked on S.D. Co. proof today. Not feeling too good.

Today sent a *Phyllorhynchus* to Wall. This is from San Felipe (Town = Borego Hotel) not valley.

Martinez *Trinorophodon* taken about this time is from Bear Valley near Escandido.

1931 Monday 25, May

Turned County proof to printer for
first page proof.

May Tuesday 26, 1931

Wm. Whiston Small gophers. Flinn Springs.

1931 Wednesday 27, May

Furnished material to the Fields for
collecting in the Chiricahuas.

May Thursday 28, 1931

Received the county page proof for check today.

The multicincta from the SSP Co was from Cable Canyon near Verdmont T2N, R5W Sec 26

Went out to take some photos today. A clear warm day. With Kobles, started at 10¹⁰; returned at 12¹⁰. 55 miles.

Broadway, La Mesa, Santee, 1/2 way up Mussey; returned via Fletcher Hills, Fairmont and Broadway.

- 1 Hybrid King L DOR Encanto. Light brush.
- 1 Red Racer L " Chollas Hts. Fields - Lt Brush.
- 1 Med Gopher M " San Vicente Brush & Rocks
- 1 Small Patch Nose " " " (Sawd).
- 1 Small Rubber " 1/2 way up Mussey Brush & Rocks.

1931

Friday 29,

May

Worked on proof of county
paper this evening.

May Saturday 30, 1931

Memorial Day

Worked all day checking first page proof of county paper today, except about $1\frac{1}{2}$ hours in the morning milking snakes and working over auto situation with Newton (about 1 hr. more). Still finding a few errors.

1931

Sunday 31,

May

Worked all day and evening today
on the Enyo - Tigris paper and
finished the first draft. Begun
last December but dropped for
the other papers

June

Monday 1,

1931

Returned county paper proof to printer.

Recd OK from Mrs Gaige on Boulder Dam paper from Copeia but next 2 numbers probably full.

Recd a medium Cal. Kingi from AL Benedict collected at La Mesa Country Club.

Saw at the zoo a leopard lizard from Desert Center with wonderful Vermillion markings like separate dabs of paint on both sides.

Saw today a lizard oreganus that had been injured and was infested with small maggots in the wounds. Evidently they are not affected by any toxic quality of the blood.

1931

Tuesday 2,

June

Today saw a Lichanura
roseofusca gracia belonging to
 Baggett from Dead Man's Point, San
 Bernardino County.

The stripes are very well marked
 and continuous from head to tail.
 There is some roughness along the
 edges, but on the whole the variation
 is within a single scale row; i.e.
 there is a border row on each stripe
 the scales of which may be colored
 or uncolored or part one or the other.
 Below it is heavily mottled. Many
 of the border scales are dark edged,
 that is with a third darker
 color.

The colors are orange rufous
 and gull gray (Plate II).

The oculars are $\frac{9-9}{4}$ and the lower scales
 $\frac{2}{2} - \frac{2}{3}$

June Wednesday 3, 1931

Got back ^{2nd} page proof today.
Heard today from Bogert of a specimen
of *Sichanura* from Fish Canyon, L.A. Co.

Recd today a boa from Barrett Dam
Ed Durham

1931 Thursday 4, June

Returned 2nd proof (page) to the printers today. Had a long final conference with the printers on details.

Tigris-nyo paper now copied and ready for submission. Submitted it to Abbott.

June

Friday 5,

1931

C.B. Keck of Bonego wrote
me today that the gopher snake (desert)
was relatively common in the vicinity
of the Bonego Post Office.

Talked papers with Abbott at
noon.

1931 Saturday 6, June

Took a final look at proofs
of S.D. Co. paper.

Spent the afternoon on miscellaneous
tabulating of spring records — these
having been entirely neglected since
the first of the year because of the
fur papers under way and now
completed

June Sunday 7, 1931

Spent practically the entire day on the trip record - entering notes from this diary on the sheets. All country and locality records are now down to date on sheets, but not on cards. Zoo record is also down to date.

As of today the following rattlers in my collection remain to be checked:

Oreganus	Washington	8	
	Oregon	1	
	So Calif	1	
	S.D.Co.	9	
	Lower Calif	3	
Confluens	Ariz	3	25
	Platteville	4	
	Colorado	6	
	Texas	1	
	Arizona	4	15
Mitchellii	Arizona	5	
	San Diego	5	10
			7
Scutulatus			8
atrox			12
Ruber			10
Cerastes			1
Lepidus			1
Sistrurus mil			89

1931 Monday 8, June

Today the first sheets of the county paper were printed.

Read today from P. H. Young of the Santa Fe a large Pacific and a Scute from "Foothills between Skull Valley and Ramsgate"

June . Tuesday 9, 1931

Checked the County Paper on the press. Looked ok except for some fins in the black-face type and two pages (including tables) badly skewed.

This evening worked on rattle data

1931 Wednesday 10, June

Went over the skewed tables and pages with the printer today and he agreed to reprint one row of pages containing the worst work. This will delay publication from the 16th to the 20th

Spent the evening on the first ~~page~~ galley proof of the worm/snake paper.

June Thursday 11, 1931

Returned worm snake gallery proof
to Abbott.

Today received the following locality
records from Col. M. L. Cramm's
Crotalus lepidus

El Paso, Tex

McKelligan Canyon, 3 mi. E. of El Paso

Devil's River, Tex

El Valle, Chihuahua

Corralitos, "

Crotalus molossus

Eddy Co, N.M. (near Carlsbad Cavern)

El Paso Co, Tex

Comal Co, Tex

Brewer Co, Tex

Toyahvale, Tex

Edward's Plateau, Limestone Hills N of
San Antonio

El Valle, Chihuahua

Sistrurus catenatus edwardsi

El Paso

Vaughn, N.M.

1931 Friday 12, June

The Field boys returned from the Chiricahuas today. Brought me some nice specimens but one King snake was spoiled.

Aleman returned from his Death Valley trip today. Had a fair trip but too much car trouble.

He gave me the following DOR records

Phyllorhynchus	Barstow
Lichanura	Perris
Arizona	10 mi. S. of Lone Pine.

Milked rattlers this noon. A poor yield as usual although many snakes were handled.

The Fields told me of a Masticophis piceus found 25' up a mesquite robbing a woodpecker's nest. Had already killed 2 young but had not eaten them.

June Saturday 13, 1931

Worked in the afternoon on
miscellaneous checking. Elwin
was here.

1931 Sunday 14, June

Spent the day ^{Flag Day} on miscellaneous work, especially preparing material for the exhibit in Pasadena. Was with Plevin most of the time.

Plevin's 4 *Stephensi* specimens were as follows:

- ① Goler Canyon, W. side Panamints, about 20 mi. S. of Ballarat.
- ② Mesquite Spring, N. of Death Valley
- ③ Junction Ranch (South of Darwin, Ballarat Sheet)
- ④ Dante's View.

Measurements on 2 of Plevin's Specs.

6763	Salvadora	830-148+	♀
✓	Lampropeltis	992-1784	♂

A large red racer put in a sack with several other snakes today. Killed a large Calif racer by constriction.

June Monday 15, 1931

Went over Tiger Rattler paper this noon with Abbott.

Started for Los Angeles and Pasadena with Plevin at 5⁴⁰. A clear cool evening. Stopped for supper at Oceanside and it was dark there so count only 40 miles.

1 Boyle's King	L	DOR	Old Town	Grass
1 Red Racer	L	DOR	Torrey mesa	Brush
1 Long Nose	M	DOR	Ocean	"

Joe Sefton had the skin of a large red rattler taken last week at Tamacha.

1931 Tuesday 16, June

This morning I left the Maryland Hotel at Pasadena at 8 AM and went to Cal. Tech. Got started arranging my snake exhibit and then went to the Council Meeting of the AAAS presided over by Dr. Boaz and held in Dr. Millikan's office. Then back and finished arranging the exhibit.

Went to lunch with R. Dorn of New York and Geo. Myers. In the afternoon went to the meeting of the Ichth. Herp. Society. Showed Stevins' film and also took part in the discussion.

In the evening went to supper with Mrs. Atsatt, Myers, Stillman ^{Bogert} and others. Talked until 9 P.M. Also rode down toward Pomona a ways. Myers gave me a small rattler taken by Dorn between Roosevelt Dam and Globe, Ariz.

RR Humphrey of the Desert Laboratory Tucson told me of finding a tiger rattler on the west side of Amole Peak, Tucson Mts. Also two about 7 P.M. in Sabino Canyon. One in a brush about 2 ft. above ground. One under a rock. Both saw them and rattled. Went sideways and back into a brush.

June Wednesday 17, 1931

Bunker Hill Day

This morning I went to the Council meeting, then met Storer and went to a meeting devoted to ecology.

Went to lunch with Storer and Dr W.H. Burt and spent most of the afternoon in Van Rosse's office.

In the evening went to dinner with Sumner and then to a long discussion re the Biological survey animal control program. Got the following locality records from the specimens upstairs.

- C. wislizenii* Longyong Spring, L.A. Co
- C. collaris* " "
- S. obesus* " , Deadman Pt, S.B. Co, Rice, Rio. Co
- Uma notata*, 7 mi. E. of Wiltonia; 7 mi. E. of Palmdale.
- C. ventralis*, Longyong Spr., Palm Spring.
- C. variegatus* Borego Valley, Coolidge Ariz.
- C. oregonus*, Wrightwood, S.B. Co, Cañon Pass.
- C. mitchellii*, Old Woman's Springs, S.B. Co.
- C. atrox*, Salt River Valley, Ariz.
- T. o. hammondi*, Sespe Canyon, Ventura Co (periglit line on neck)
- T. o. atratus*, *T. a. mckinleyi*, Stanford
- H. ochrochrychus*, Bear Canyon, Mt. home
- R. lecontei* 10 mi. W. of Barstow
- P. decurtatus*, S DOR bet Victorville and Daggett
- P. deserticola*, Victorville

1931 Thursday 18, June

In the morning went to L.A. on business. at
P.M. went to Sherwin Wood's home and got 2 pairs
of specimens. Then to Weinbergs. He had nothing
unusual. Went to Cal. Tech. and packed
specimens. Started for home about 5⁴⁰.
One large garter D.O.R. at galun. no miles in
S.D. Co. in the light.

→ *L. multicincta*, Topanga Canyon, S. Monica Mts.
L. g. boylii, Stanford, King's Mt. near Stanford,
Lorjoy Spring (a few dark types but
not at all conspicuous) Alhambra
(very narrow light bands).

A. r. occidentalis Lorjoy, August.

P. c. catenifer Stanford, San Mateo

S. g. hexalepis Mt. Wilson Trail.

C. c. mormon, Beverly Hills, Calabasas,
Stanford

M. lateralis Mt. Wilson Trail

M. f. femalus, Little Rock Creek, L.A. Co, Mint Canyon

D. a. modestus, South Pasadena

L. v. roseofusca, Fish Canyon, L.A. Co (with
very poorly outlined yellow stripes)

Verticaria, Mockingbird Lake, Riv. Co.

Whiptail, Lorjoy Spr.

Anniella nigra, Pacific Grove
(Continued on June 19)

June

Friday 19,

1931

Saw today at the Nat. Hist. Museum
a large Ruler from Campo. Too far gone
for preservation.
(Exhibit list continued)

S. g. wakbil, Mt. Howe.

P. b. blairi? ' Santernando Valley, Wrightwood.

S. magister, Horying

O. meansi, Canyon.

W. Berry told me of C. ruber being
taken across San Timoteo Canyon.
in the vicinity of Yucaypa. Offered 5⁰⁰
for a red and a Pacific from this area.

Col. Ciminins writes me the lizard
lately sent from El Paso was found fighting
with a C. collaris. The lizard seemed to be
winning but when it was pried loose the
snake bit it and the lizard died in
a few minutes.

1931 Saturday 20, June

Recd today from Dad Phelps
a medium red racer taken up
a tree. (See under July 1).

Saw today at the zoo a very
large trimorphodon said to be from
Nicaragua probably *biscutatus*.
Anal clearly divided.

Recd today from the printer the
first dozen finished copies of the
San Diego County paper. Glad that's
off my mind.

Spent the afternoon pickling snakes.

June Sunday 21, 1931

Longest Day

Spent the morning on the gully proofs of the worm snake and tiger-myo papers.

At one P.M. took Phil mt to the Boy Scout Camp at Cuyamaca; out via El Cajon Blvd; return via Broadway extension. 103 miles. Back at 4³⁰

- 1 Small Boyles King; DOR alpine brush
- 1 med gopher DOR Vieja, grass
- 1 large gopher, caught on the road at Cold Spring
- 1 med. gopher DOR Vieja, grass
- 1 med. *Triumphodon* DOR Flinn Spr. brush - rocks.

1931 Monday 22, June

~~Started for Del Monte today~~
Took lunch with Plosser
today. Worked on worm snake
and tiger pupa.

June Tuesday 23, 1931

Went to Del Monte this
afternoon.

1931 Wednesday 24, June

At Del Monte. Went to San Francisco in the evening.

June Thursday 25, 1931

In San Francisco.

1931

Friday 26,

June

Returned to San Diego at noon.

June Saturday 27, 1931

Milked rattlesnakes this afternoon.

Philip brought in a small *multicincta* taken on North Cuyamaca peak under a log.

1931 Sunday 28, June

Pickled snakes today. Completed a large number of rattlers.

Noted today a mixed King which had eaten a small gopher and a large skink when carried home in a sack on the 26th had by today gone a long ways toward digesting them. The gopher and in fact the skink as well (which had been swallowed later) were quite disintegrated.

June Monday 29, 1931

Miscellaneous work in the
basement tonight x

Saw today at the Nat. Hist. Soc.
a medium long nose from Fallbrook
too far gone to pickle.

1931 Tuesday 30, June

Worked in the basement this evening and did considerable miscellaneous filing and tagging.

July Wednesday 1, 1931

Had a call from young Snow
the movie man today. Discussed
snakes.

Dud Phelps racer was taken
in East San Diego and was found
up a tree.

1931 Thursday 2, July

Tried to do anything tonight.

July

Friday 3,

1931

Tony Green brought a large lot from Mrs. Meling in Lower California and also several specimens which he had collected in the San Pedro Martins.

1931

Saturday 4, July

Worked hard ^{Independence Day} today pickling
specimens and doing other
miscellaneous work. All specimens
pickled up to date.

July

Sunday 5,

1931

Miscellaneous filing and labeling today. Everything fairly up to date.

1931

Monday 6,

July

Received today a fine shipment
from Perkins in Denver.

July

Tuesday 7,

1931

Talked to Mrs. Cristman, the
Melting girls aunt today.

1931 Wednesday 8, July

Cook returned from the Chiricahuas today with a good catch especially prices.

Worked on specimens to be returned to the Melings tonight.

Read first copy of the Tigris-Enyo paper today.

July Thursday 9, 1931

Recd first copy of the worm
snake paper today. 100 were printed
yesterday but I didn't get one.

1931

Friday 10,

July

Got 250 copies of the tigris and
worm snake papers today.

July Saturday 11, 1931

Recd today from Henry Shetton
a small *Mitchellii* from the saddle
between middle and south peak,
Cuyawaca at elevation 5000.

Milked rattlers this afternoon.
Not very many nor a particularly
good yield.

Spent most of the afternoon and
evening addressing papers. Am
sending out next Monday the San Diego
County, Tigris-Enyo, Boa and Worm Snake
Papers, a total of 4.

1931

Sunday 12,

July

Finished getting the papers ready today. Also miscellaneous filing.

Recd today from Vernon Bailey a rattler and a gopher from Fallon, Nev.

July Monday 13, 1931

4 Papers finally mailed today.

AC Bull and wife to dine tonight.

1931 Tuesday 14, July

Too tired to do anything this evening.

July Wednesday 15, 1931

1931 Thursday 16, July

Drove to San Pedro and Point
Loma 22 miles. Nothing seen.

July Friday 17, 1931

H.K. Gloyd and wife arrived from the east this noon. Conferred with them at length tonight.

1931 Saturday 18, July

Spent the afternoon talking to the
Gloyds. They leave for S.F. tomorrow
to return in about three weeks.

July Sunday 19, 1931

Spent most of the day working on the penaeal characteristics of rattlers. Find some differences but difficult to evaluate. The spines show differences in numbers but it is hard to count them as they grade from full size to very small.

There is certainly a definite difference between *Crotalus* and *Pituophis*.

1931

Monday 20,

July

Roy Thompson told me today that Joseph Joffe, Asst. to the Supt., Yellowstone National Park, Yellowstone Park, Wyo. stated that no rattlers were to be found in the park which is all above 7000 ft. Rattles seldom occur above 6000 ft. They are to be found on the Montana side, just a few miles out of the Park.

July Tuesday 21, 1931

1931 Wednesday 22, July

Drove to La Jolla today. 20
miles. Nothing seen.

July Thursday 23, 1931

1931

Friday 24,

July

Worked checking ratelers tonight;
that is finishing up some of Cooks
sheets.

July Saturday 25, 1931

Milked 3 v rattlers this afternoon.
Had to work until 3³⁰ at office

1931 Sunday 26, July

milked the *Chiricahua picea* this afternoon and got an appreciable amount of venom. This was the second milking. Used the lace net method for the second time.

July Monday 27, 1931

(August 4th Continued)

The long run down to Kirkland Junction is gradually lightening chaparral much like Viejas Grade. South of Kirkland it is getting more barren and rocky with more cactus.

5 mi N. of Yarnell we noted *R. pipiens* but did not collect it.

Stopped on the hillside (north slope) 1 mi. South of Yarnell to hunt for *Xantusia* and sure enough we found them. Got one at about the fourth slab. They were under slabs not flakes (For details see *Xantusia* paper). We got 6 and lost 1. We left here at about 3⁴⁵ having worked hard and just about tired ourselves out. Less than a mile from the type locality of Arizonae we came to the top of the grade and sight the desert. The down grade is about 5 mi and then we reach the flat.

At Congress Junction there is a dry grassy plain with scattered mesquite, yucca and cacti. Rather sandy.

One scute L DOR 3 mi. S. of Congress J. desert at the Maricopa County border we come to the first tree cactus; (cont July 28th)

1931 Tuesday 28, July

(August 1st continued from July 27)

Here the desert becomes rolling and very rocky but with small rocks only.

At Wickenburg we met Messrs. Rohrer and Spitz and talked snakes with them for about $3/4$ hour. Spitz says mittchellii is found only in red-rock hills.

There is a rolling desert around Wickenburg.

8 mi. S. of Wickenburg we stopped at a service station where they had several snakes. They had one pink mittchellii caught at this point and also a King snake with narrow light stripes about $1/2$ way between a boylii and a yumensis.

From Wickenburg in to Phoenix there is all desert of varying textures with mountains in the distance on both sides. It was very hot and although a few lizards were seen we made no attempt at collecting. It was evidently too hot and too early for snakes as nothing was seen. We reached Phoenix at 7 P.M. and fixed specimens before going to the hotel. All showed the effects of the heat. Miles Today 117

July Wednesday 29, 1931

(August 20th continued from July 30th)
from Williams to Prescott. Certainly
it looks like good snake country from
10 mi. W. of Williams to Prescott
except the large Chino Valley. It
is easy to see why specimens
came from Del Rio and El Paso but
not the area between. There ought
to be rattlers between Drake and
Ash Fork.

Arrived at Prescott at 7³⁰ P.M.,
Miles for the day 217

1931 Thursday 30, July

(August 20th Continued from July 31)

Oreganus or *confluentus*.

The country south of Ash Fork is rolling grass covered hills, large junipers, few scattered rocks. The trees become more plentiful as we go south. The soil is red brown.

At Little Hell Canyon 14 mi. S. of Ash Fork there is an increasing roughness and more trees. 20 miles south of Ash Fork it is still rolling but more arid and rocky. 21 miles south we descend to a large grass covered plain. This is the Chino Valley. 12 miles north of Prescott we leave the Chino Valley to enter rolling country which becomes very rocky at 10 mi. N. Later it is less rocky but much cut up by streams.

Today was rather disappointing as we reached good lizard collecting grounds too late. Quite evident that lizards must be collected in the morning. I was interested in noting the character of the country
(Continued July 29th)

July Friday 31, 1931

(Aug 20th Continued from Aug 1)
 1 med Olive Brown Conflue DOR
 6 mi. ~~E.~~ of Flagstaff. Not of pinyon
 size. No light line around blotches.
 Large trees here. Pines.

Stopped at the Dean Eldridge Museum
 3 mi. E. of Flagstaff.

He had several stuffed snakes
 and 2 black Pacifics in pickle.
 Promised me the data on these two
 later. He also referred to Conflues
 as sidewinders. He had a number
 of these but the records were uncertain.

He had a large scute from Sidonia
 (Sedona) south of Flagstaff and a
 Molossus from the same point.

There was a heavy rain most of
 the way between Flagstaff and Williams
 but the road was not bad.

1 Vagrans DOR 54 mi W of Window (fort)
 1 Molossus DOR 1 mi E. of Ash Fork Junction
 but this can't be counted as it had a cord
 around its neck.

The last ten miles approaching Ash
 Fork look like good snake country either
 (Continued July 30th)

1931 Saturday 1, Aug.

(August 20th Continued)
 of Meteor Crater. Plain, short grass
 and a few rocks.

We stopped to hunt for a short time
 1 mi. S. of Meteor Crater Junction at
 noon. It was rather hot - uncomfortable.
 Red earth, short grass and a few
 red rock outcrops. *Holbrookia* and
whips are common here.

Stopped at Two-guns at 1 P.M. and
 got a few lizards along the Canyon
 Diablo bluffs. Hunting was not
 good - evidently too hot. The *Atas*
 perch on rocks.

1 Small reddish to brown confluence
 D.O.R. 6 mi. W. of Two guns. Short
 grass and rocks.

Same thing one mile further west.
 Also 1 medium *Pituophis* DOR at this
 point. Canyon Padre is 4 mi. W. of
 here. Here the territory changes to
junipers (at Canyon Padre) Hunted here
 for a short time but had no luck.

A W. more the terrain changes
 again, becoming rolling hills and trees.
 (Continued July 31)

Aug.

Sunday 2,

1931

Nothing done today. Boils.

(Aug 19th - Continued from Aug 3^d)
through carelessness and too high
speed, taking the wrong branch of
a turnout. This took a half hour,
very hard work, and I got plastered
with mud.

Reached Holbrook at 11³⁰ very
tired. Took a vacant room at
the auto camp as no one was up.
Miles today 188.

1931 Monday 3, Aug.

(Aug 19th Continued)

The temperature was about 80°. Small fir, junipers and sagebrush. Quite dry. The roads are also getting worse. The mesas are very rocky but no lizards were to be seen, except a collared lizard at Keams Canyon.

We arrived at Mishongnovi at about noon; ate lunch and amused ourselves about the village. (For a description of the Dance see elsewhere.)

We got started back at 6¹⁵ but had trouble immediately as the washes were soft with rain and the cars ahead had spoiled the road. We got stuck once and hauled one car out. This must have delayed us a full hour so that we missed a chance to travel in the light.

Then we hit several bumps very hard and broke a snubler. Thought we had broken springs but it developed afterward we did not.

We got stuck in the mud once
(Continued on Aug 2nd)

Aug. Tuesday 4, 1931

Cook left on the Hancock yacht for Cedros this morning.

(Aug 18th Continued from Aug 5th)

We found that the rattlers taken in the vicinity of Two Guns (where they are called sidewinders) are not so dark as those from Meteor Crater (there were 4 of the former at Two-Guns) at the latter point they are said to be quite common.

The common lizard east of Flagstaff (the tree and sandstone area) is undoubtedly Sceloporus consobrinus while around Winslow (the rocky, grass area) is Holbrookia maculata approximans.

We got back to Holbrook at 8⁴⁰. Miles for the day. 191.

1931 Wednesday 5, Aug.

Pam Harte and companion left today for the Argus mts.

+ (August 18th Cont from Aug 6th)

After Holbrook we went east on US 70 to the Petrified Forest. This country is more rolling and with a heavier grass cover; it ought to be better snake country. At the Forest there are large limestone outcrops. The custodian said snakes were found there but that they were uncommon.

Returning to Holbrook we went east on US 66 as the cut-off from the Petrified Forest through Adamana was washed out. This is also a rolling grassy plain. At one point we passed a rocky gorge due north of Adamana. This must be the place where Hayes got the rattlers last year. We went to Painted Desert Inn but it was too late for the view. Then we went over to Indian Miller's Service Station but found that the boy who told us there was a snake collection was off.

(Collected Continued Aug 4th)

Aug. Thursday 6, 1931

(Aug 18th Continued)

There is a sudden change just east of Canyon Diablo. Although the Canyon sides are yellow sand-stone, a little beyond the red rock outcrops and from there on into Winslow it is practically all red rock and red earth. This includes Denison and Moqui but Sunshine was not seen as it is not on the highway.

We had generator trouble on the way; but arrived at 1 P.M. and went into a garage. Here we were delayed & hes.

After leaving Winslow at 3 P.M. we went on into Holbrook. The intervening country is drier and less rocky than west of Winslow and looks like poor snake country. There are a few red rock outcrops; these are large and not scattered. In one place we stopped at one of these outcrops, but no lizards were seen. Across the road there was an irrigating ditch and here Rana pipiens was very common but hard to catch; only one was collected. Not a lizard or snake was seen alive all afternoon.

(Continued Aug 5th)

1931

Friday 7,

Aug.

Went out to Descanso today to see the new line with Phil. Started at 9³⁰; returned at 12³⁰. Up the old Viejas' grade and returned by the Highway. A moderately cool day. Few lizards seen; one skelly at Flemer Springs 78 miles

1 *Trumorphodon* M D & R Lakeview.
(Barred. grass - orchard

Aug. Saturday 8, 1931

Miscellaneous filing. Out to dinner.
Put away many specimens.

(Aug 17th Continued)

Caught a gopher snake just outside the Naturalists Lodge at Yavapai Point.

Vernon Bailey is expected here in a few days.

On the return trip we got a skelly 37 mi. N. of Red Lake.

We hunted around the shore of Red Lake but saw nothing.

1 *Pituophis* just outside of Williams.
(Sawd head).

Arrived at Flagstaff at 7 P.M. Clear and cool. All the territory between Williams and Flagstaff is alternate wooded hills and flat bare meadows. Looks quite damp. There are some scattered rocks. Doesn't look like a good snake country.

Between the Canyon and Williams doesn't look good for either snakes or lizards.

Total miles for the day 170

1931

Sunday 9,

Aug.

Miscellaneous records and filings

(Aug 16th Continued from Aug 10th)
ont crops. Cant tell anything about the
lizard fauna as it was too cold and
wet today. Saw only one on the mesa
and this couldn't be identified. East of
Ash Fork we go up fast and the country
rapidly becomes a forested area; also
rough with canyons. Certainly this
is different from Gleeed which is prairie.
It is not impossible that rattlers dont
cross at Williams, but they ought
to be found at Ash Fork. The road today
was rather rough in spots.

Total miles today ~~225~~ 202

Aug. Monday 10, 1931

(Aug 16th Cont from Aug 11)

Hackberry.

From this point on there are rocky hills. Then 15 mi W. of Peach Springs begins a long grassy green plain. This gets rough and rocky near Peach Springs and beyond. Here the *Junipers* are plentiful.

1 *Pituophis* M DOR 38 mi W. of Seligman
(= Nelson) grass and junipers.

Started to rain 4 miles west of Seligman.
It has been a long grass plain for many miles back.

1 *Pituophis* L DOR 4 mi. E. of Seligman grassy plain

1 *Pituophis* M " 10 " " " " "
(= Crookton)

1 *C. oregonus* L DOR Crookton grassy-plain.

This was identified with difficulty but was cleared up by soaking. This proves that in northern Arizona this species is found on grassy plains.

There were no rocks or mountains about.

1 *Phrynosoma douglassii* 11 miles ^{WS} east of Williams
Arrived at Williams at 6²⁰ (Pac. T) Quite cool but no rain.
Up to Ash Fork the country is still an upland prairie, with green grass and a few junipers. Some rock
(Continued to Aug 9th)

1931 Tuesday 11, Aug.

Gloyds arrived from Long Beach this evening.

(August 16th Continued)

20 or more miles west of Oatman at Riverside and start to climb. Here are cacti and masses of red brown rock. Then we come to Oatman and Goldrun. We stopped at a point east of the Summit 5 mi. E. of Oatman and got a chuck and collared lizard. whiptail here. A collared lizard was collected 10 mi. E. of Oatman which would be in the Sacramento Valley. After coming down over the hill from Oatman there is a long flat plain (the Sacramento Valley) covered with greasewood. Very few rocks; lizards were not observed here.

Kingman is surrounded by rocky hills. An Indian told ~~us~~ us that rattlers were to be found hereabouts but are not common. A big chuck was seen on a rock just E. of Kingman.

There is then a long grassy plain to Hackberry, when it begins to get mountainous and rocky. We got a big chuck alive at
(Continued Aug 10th)

Aug. Wednesday 12, 1931

Cook returned from Cedros Island today. Gloyds working in the basement.

1931 Thursday 13, Aug.

Glogds working in the basement.
Went over plans for Walker's trip with
him. Met Schlangé today for the
first time. Walker tells me that
many toads were run over last
night (it was drizzling) on El Cajon
Ave.

Aug. Friday 14, 1931

Glogds working in basement
to day

Outfitted Walker for his collecting
trip. He expects to start Monday.

(August 15th Continued)

Nothing of particular interest. Ate
supper at Victorville. Left there at 7 P.M.;
just getting dark. Barstow at 8 P.M.;
dark and comfortably warm.

Not a live lizard was seen all day.

1931 Saturday 15, Aug.

Today at 138 Philip and I started for the
topisnake Dance at Mishongnovi, Ariz.
Started at 138. A clear warm day. 42731

1 L. g. boylii D.O.R L Lake Hodges fields

1 C. c. oregonus DOR M. San Marcos fld or orch

1 L. g. boylii S DOR Bonsall, Brush

Riverside Co line 42797 miles in County 66

C. wislizenii S DOR Hodge, S.B.C. desert

C. scutulatus S. Todd. Found on the road
suddenly just run over at 740. Still lively
but badly hurt.

Arrived at ¹¹⁵⁰ Needles a short time before

midnight and put up at a hotel. Total

miles for the day 366. Very much

disappointed in finding nothing while

on the long ride across the desert. It was

quite warm in the lower areas, comfortable

and cool higher up. We had expected to

find a number of small snakes alive or
D.O.R.

It was medium warm at San Diego, quite

hot at Elsinore. Cooling at Ran Bernardino.

Trip mileage mechanism not working on

speedometer, and trouble with the horn. Stopped

to see Garner's snakes at Highgrove. He had

(Continued on Aug 14)

Aug. Sunday 16, 1931

at Needles.. Woke up this morning at 7⁰⁰, a clear warm day. Started out at 8⁵⁰. Got a dip 5 mi. S. of Needles. On the mesa south of Needles only a few dips were seen. Usual rocky desert looks like fine hunting ground. Stopped to hunt in the wash across the river from Topock. large mesquites. Although it looks like fine country, nothing was seen. Saw a Cally DOR at Topock.

Stopped to hunt in a sandy and rocky mesquite wash 3 mi. NE of Topock and got a number of lizards and 1 toad here. It was hot with a small breeze. Lost 2 Toads in a deep hole. Watched a cally chase a lita stans. They doubled back and forth at high speed like a dog and rabbit. Don't know if he was caught.

At 11 AM stopped 10 mi NE. of Topock but caught only a whiptail. This is the rocky area where lizards were so thick several years ago in May.

Chuckwallas were decidedly less common around Oatman and from there on than on the previous trip in May. Only three were taken and not many more were seen. A chuck was taken at Oatman and C. collaris was observed. We leave the rocky desert
(Cont Aug 11th)

1931 Monday 17, Aug.

This morning we left Williams for the Grand Canyon at 8⁰⁰ M.T.; a clear cool morning.

At Grand Canyon we met Mr. Kee and Bogert. Mr. Kee has caught no rattlers this year. He wants to know more about the *Confluentus* problem and I promised to send him a map (done later). He promised to send me "Grand Canyon Nature Notes".

Bogert had a number of interesting specimens including a *Molossus* in Havasupai Canyon (western end of Grand Canyon) and a *Sonora* on one of the main trails. These are both new records for the Canyon.

On the way over to the Canyon, we start with *Transiturus* and end in the same, but the area between which probably corresponds to that around Valle and Anita in the Santa Fe is Sonoran. Sage brush is to be seen; no trees except junipers. Although the grass is green, the soil looks poor and the vegetation sparse. Saw only one lizard on the way a skelly of some kind.
(Continued Aug 18th)

Aug. Tuesday 18, 1931

Started this morning from Flagstaff at 8³⁰: a clear warm day.

At Winslow the pines have disappeared and the country is much drier. The fir and junipers are shorter. There are skellies to be seen in good numbers on the scattered sandstone.

5 miles east of Canyon Padre we hunted for about 1/2 hour from 10⁴⁵ to 11¹⁵. It was clear and moderately warm, with a light breeze. *Holbrookia m. a.* was very easy to collect. They run a short distance and then stop. They zig-zag some and don't take readily to holes. Also we collected here a small *confluentus*. He seemed quite vicious.

A treeless plain with scattered rocks and low grass with small shrubs begins at Canyon Padre.

At Two Guns (Indian Wells) we bought a small dark *Confluentus* for 1⁰⁰. They are called sidewinders here.

1 *Pituophis* DOR Two Guns. Rocky plain

1 *Hypsiglena* DOR 3 mi W. of Deming

1 *Pituophis* DOR " (saved)

(Continued on Aug 6th)

1931 Wednesday 19, Aug.

This morning at 7⁵⁵ we started for the snake dance at Mishongnovi from Holbrook.

1 Small C. c. confluentus DOK 3 mi. N. of Holbrook. Brown not red. Plain grass prairie here, ~~to~~ ^{no} rocks. Got one whiptail.

Got a small confluence crossing the road 6 mi. N. of Holbrook. Plain dry grass prairie hereabouts. Prairie dogs.

Stopped to hunt on a prairie and sandy knoll at 10 mi. N. of Holbrook and got Holbrookias and whiptails but not as common as yesterday near Canyon Padre.

We got a second fire pinkish rattlesnake crossing the road 22 miles north of Holbrook. We hunted at 25 mi. N.

but found lizards scarce. Got a Holbrookia

Beginning a little before Indian Wells the country becomes increasingly rough and rolling; also drier particularly at higher altitudes.

We hunted on the mesa 22 miles north of Indian Wells for a short time but saw no lizards. In fact we saw none crossing the road in this area

(Continued on Aug 3^d)

Aug. Thursday 20, 1931

This morning at Holbrook we took about an hour to clean up the mud and rearrange the load in the car. We started from the auto camp at 8⁴⁵

1 *Crotalus c. confluentus* 6 mi. W. of Winslow D.O.R. This was not a small red but rather a dark olive. Somewhat longer than the small reds but not a light green or as large as a light green.

(*Hypsiglena* D.O.R. 3 mi W. of Winslow (near Dennison) Sandstone. Also a *Uta* stays here.

At 16 miles west of Winslow a large olive green *confluentus* D.O.R. This was definitely larger than any of the little Winslow reds. Sandstone, red rock, light grass and brush here.

We went to Meteor Crater and talked to the boy there. ~~He~~ He said that rattlers were moderately common - also collared lizards but we didn't see any. We caught a *Uta ornata symmetrica* in the house.

One confluence (small dark) D.O.R. 4 mi. N.
(Continued Aug 1st)

1931

Friday 21,

Aug.

Today we started from Prescott at 9 AM. First went around to see Rohrer at the Santa Fe but he was not in. Talked for half an hour with his chief clerk Lee Cheesboro.

South of Prescott we come to real mountains; the summit is reached 7 mi. south.

South of the summit the slope is much more arid and is covered with chaparral. *Sceloporus consobrinus* is seen but is not common.

We stopped for a while 21 miles south of Prescott on the North side of the Kirkland Valley. Here are grass and light brush. At a small pool we found Scaphiopus hammondi in all stages from tad poles to little toads. Also we collected here 3 Thamnophis eques. (Two died from the heat on the way in to Phoenix) Little whistlers were quite common here. Holbrookia was seen but not collected. This was 2 mi N. of Kirkland Junction. We got a Crotaphytus 4 mi. S. of Kirkland Junction.
(Continued July 27th 1931)

Aug. Saturday 22, 1931

Today after a hot night we just went around to see Evans collection. He had a few rattlers, scutes and atrox. Nothing worth commenting on except 8 tigris taken in the mountain south of Phoenix. He had a brood of six scutes born the night before, 4 quite dark, 2 lightes. He gave me one of the lightes which was dead.

We left the State Capitol for home at noon. West of Phoenix there is alternately desert and cultivation.

1 h.g. boylii M DOR 4 mi. E of Hassayampa
Clean narrow white stripes. Cultivated fields.

We reached Gila Bend at 2⁰⁵ Very hot; not a lizard to be seen anywhere, although we passed many ideal places both rocks and sand. Too hot ardently. If any snakes were out last night they are gone off the road.

Stopped at Sentinel at 3²⁰ got dips, whip and saw cally but did not collect. Too hot for lizards to be out.

At Reptile Inn near Mohawk with OD Heron saw an atrox with young (6) born today. Says they are usually born in August. He had no rattlers except atrox and cerastes (Continued Aug 23d)

1931 Sunday 23, Aug.

Spent the day catching up with all kinds of work - Basement, Zoo and office.

The *Xantusia* looks ok. Nearest to *viridis* but quite different in form.

(Aug 22 Continued)

He tells me that the atrox and scutes are found along the river bottom. His atrox are of all different colors. Some are very dark brown like scutes; others are very light. He had caught an atrox several feet up in a mesquite tree. He handles them all easily but carefully and kindly. He catches most of his ciastes early in the morning by following the tracks. He had had a black tail from the Copper Mts, Betty Lee Mine. Witches are always in rocky country. We left the Reptile Bin at 5³⁰.

We reached El Centro at 7⁰⁰ P.M. Still very hot - nothing seen, evidently too hot for snakes.

We reached home at 10⁴⁵. Nothing was seen (Continued Aug 24th)

Aug. Monday 24, 1931

Too sick to get anything done.

(Aug 24th Continued from Aug 23^d)
after we left Yuma except one
C. wislizenii. Evidently too hot - also
we were traveling too fast.

Dark at El Centro. Miles in the
County 77 but not to be counted as
it was dark.

Total miles for the day 384

Cost of the trip.

19.5 gal gas	40 ⁴³ / ₁₀₀
13 qt Oil	4 ⁵⁵ / ₁₀₀
Garage	1 ²⁵ / ₁₀₀
Hotels and camps	29 [—] / ₁₀₀
Meals	15 ⁹⁰ / ₁₀₀
Auto Repairs	7 ³⁰ / ₁₀₀
Miscellaneous	7 ⁴⁰ / ₁₀₀
	<hr/> 105 ⁸³ / ₁₀₀

1 Gauges from Kirkland Creek contained
not less than 13 of the small toads, some
with tails.

1931 Tuesday 25, Aug.

Sick tonight

Aug. Wednesday 26, 1931

Miscellaneous work tonight. Feeling
kitter

Saw today at the zoo 2 chucks
from S. Palms "near El Centro"

Recd today via Fleming a small
long nose from Rose Canyon

1931 Thursday 27, Aug.

Miscellaneous filing tonight.

Aug. Friday 28, 1931

Miscellaneous filing tonight.

As of this date the basement work is remarkably good. All gattlers read and pickled to date have been counted. Everything put away.

1931 Saturday 29, Aug.

Milked rattlers this afternoon.

Aug. Sunday 30, 1931

Started for the gas convention
in San Francisco this afternoon.

1931 Monday 31, Aug.

In San Francisco.

Sept. Tuesday 1, 1931

Spent an hour or so at the
California Academy late this afternoon
checking rattlesnake entries.

1931 Wednesday 2, Sept.

Spent a part of the afternoon at
the California Academy.

Sept. Thursday 3, 1931

Spent a part of the afternoon
at the California Academy.

1931

Friday 4,

Sept.

Spent nearly all day at MVZ.
Went with Dr. Bade to hear Dr.
W W Cross make a talk on venomous
snakes at the Berkeley Commons
Club.

Dr. Bade told me of watching
a Pacific Rattlesnake in the Sierras
go up an aspen tree about 3 to 4 inches
in diameter and rest on a branch
about 15 ft. above ground.

Sept. Saturday 5, 1931

Worked from 9AM to 3PM. checking rattlers at MVZ

Noted today a ring-neck from Berry Creek, Butte Co, Cal Sept 1/31 which is deep crimson, (not yellow or varmilous) Below from head to tail. a few scattered black dots. Same color ring. Head and body almost black. Very different in every way from similis.

A few records of interest.

Anniella pulchra Contra Costa Co

Coleonyx variegatus W.C. Hanna

Reche Canyon, 4 mi. S.E. of Cotton

Hypsiglena ochrorhynchus, 2 mi. E. of

Phealey, 5000 ft., Mono Co

Bipes hyonius Santo Domingo Lat 25°30'

Phyllorhynchus decurtatus San Ignacio 6000'

Lampropeltis conjuncta? Comodore

Very thin stripes not over 4 scales wide
on dark brown

1931

Sunday 6,

Sept.

Returned from San Francisco this noon.

Worked all afternoon and evening catching up with work.

Sept. Monday 7, 1931

Worked all day and
evening on Xantusia Arizonae -
a much longer job than I had
anticipated.

1931

Tuesday 8,

Sept.

Worked this evening preparing maps for Erwin and Mc Kee to try to stimulate them to get more material.

Sept. Wednesday 9, 1931

Spent the entire day and evening working on the Xantusia papers. Practically finished -

H.S. Stein of Oakland called me from the Zoo today.

Garty brought in a small L. multicincta from Idyllwild which was preserved.

Noted today that a medium sized Trimorphodon from Escalante (Bear Valley?) which was placed in the basement Sunday or Monday had escaped.

1931 Thursday 10, Sept.

Tonight I checked the Xantusia
papers and made the map.

Sept. Friday 11, 1931

Walker and Cook went up to Laguna today to look for *Thamnophis ordinoides elegans*.

Handed in the *Xantusia* paper today. Abbott and I went over it late this afternoon.

This evening I worked on transferring the snake dance notes to this book.

1931 Saturday 12, Sept.

Saw several specimens at the zoo today which should be entered as they may not get into collections

A large very black *M. piceus* from $1\frac{1}{2}$ mi. S. of Santo Tomas, B.C.

A large desert tortoise caught on south side of Kramer Hills, S.B.C.

Another from 7 mi. N. of Randsburg

Spent the afternoon and evening writing up the diary notes of the Meshongnoo trip.

Sept. Sunday 13, 1931

Worked almost all day on the Hopi papers; that is the part on the species collected enroute, not the part on the dance.

1931 Monday 14, Sept.

The Daughertys were out to dinner tonight and were shown the collection.

Sept. Tuesday 15, 1931

Milked snakes this noon. Read
up on the snake dance tonight.

1931 Wednesday 16, Sept.

Worked on the Snake dance paper
tonight

Sept. Thursday 17, 1931

Worked on the snake dance
papers.

1931 Friday 18, Sept.

HK's to dinner; more.

Sept. Saturday 19, 1931

Worked on the snake dance paper.
Scripps's kids and tutor came to see
collection.

1931 Sunday 20, Sept.

Worked on the snake dance paper all day.

Sept. Monday 21, 1931

Heard today from Eldredge at Flagstaff that one Black ~~rat~~ ^{skunk} seen in his place was taken at Oak Creek (Sodge) and the other at Long Valley, Coconino Co.

1931 Tuesday 22, Sept.

Working on Snake-dance paper.
Recd a ring-neck from Reptiles office.

Sept. Wednesday 23, 1931

Working on snake-dance paper

1931 Thursday 24, Sept.

Working on Snake-dance paper

Recd a ring neck from Kelly

Went over first page-proof of Xantusia
paper.

Sept. Friday 25, 1931

Dictated part of snake part of Snake -
Dance paper. Reading references tonight.

1931 Saturday 26, Sept.

Dictated balance of snake part of
Snake Dance paper. Worked on bibliography
tonight.

Sept. Sunday 27, 1931

Spent the entire day whipping
the Snake dance paper into shape.
Movie in the evening.

Recd today another shipment from
Melings via Tony Green

1931 Monday 28, Sept.

Went to Los Angeles today. a
clear cool day. Start 1²⁰

58 miles in County.

1 *Arizonia elegans occidentalis* DOR
at Gediwan. Grass both sides.

Sept. Tuesday 29, 1931

Spent part of the afternoon at the L.A. Museum looking up snake dance references. They have added very few specimens during the past year.

Among these may be mentioned

679 C. ruber Arlington Park, Riverside 3-2-31

695 C. scutellatus, Rosamond, L.A. Co 5-11-31

680 L. noreafusca, Altadena, L.A. Co 3-12-31

684 P. decurtatus, Coolidge, Ariz 2-10-31

689 X. vigilis, Palm Dale 4-12-30

697 R. lecontei, Coalinga 7-10-31

A2448 C. c. mitchellii 9 mi. S. of Old Women's Spring, S.B. Co

599 L. g. boglii Rancho La Brea. Very dark with narrow stripes

Pacific Rattlesnake looking head. El Paso Creek, 3 mi. S. of Tejon Ranch, 7 mi S. of Arvin. Looks like a San Joaquin Pacific.

Returned from L.A. starting at 6:30 P.M.

1931 Wednesday 30, Sept.

Heyman writes he found a gopher snake
20" long crawling on the road at Palm City
on a cool dark evening at 6¹⁰

Oct. . . Thursday 1, 1931

Recd tonight a small Pacific
rattles from Bob Scripps from
Munawau.

1931

Friday 2,

Oct.

Worked on the snake dance paper
in the evening.

Oct. Saturday 3, 1931

Worked on the snake-dance paper
all afternoon. Movie in the evening

C. scutellatus Loring's Butter

1931

Sunday 4,

Oct.

Worked all day on the snake dance paper. Finished the section on the snakes.

Bogert came down in the morning and gave me a lot of the specimens which he collected on his Arizona trip. Also returned the collecting material.

He gave me the following localities based on specimens not in my possession.

S. semiannulata.

Mouth of Garden Creek, Grand Canyon 8-15-31

L. g. boglii

Havasupai Canyon, near Mooney Fall, Grand Canyon 8-12-31

Small specimen. Clear narrow white stripes.

M. t. taeniatus

Wupatki

Bufo punctatus

Grand Canyon near Garden Creek

Skink

Walnut Canyon

Oct. Monday 5, 1931

Continued on the Snake-dance
bibliography.

Recd today five legends from M. E. Kee
for identification.

1931 Tuesday 6, Oct.

Talked with allie about the
Walpi dance of 1913.

Xantusia paper out today.

Went to El Cajon this noon. 26 miles.
Nothing seen.

Oct. Wednesday 7, 1931

Barcroft called tonight

1931 Thursday 8, Oct.

Worked this evening on the
Snake dance bibliography

Oct.

Friday 9,

1931

Went to a Westinghouse sales meeting tonight.

Today I received a note from Dr. Walter P. Taylor, Tucson of a C. atrox taken at Amado Well, Santa Rita Range Reserve, Arizona, Aug. 4, 1930. Wt. 6 lb. on a spring balance; length $55\frac{1}{2}$ ".

1931 Saturday 10, Oct.

Milked Rattles this afternoon and
worked in library on Snake dance
bibliography.

Oct. Sunday 11, 1931

Worked on the Snake dance
paper today and tonight. The last
part is still not logically developed.

1931 Monday 12, Oct.

Columbus Day

Worked on snake dance paper
tonight not much as went to
meeting of N. H. Fellows

Oct. Tuesday 13, 1931

Got some work done on paper
tonight.

1931 Wednesday 14, Oct.

Went to Los Angeles this afternoon.
Put in the evening at L A Public
Library on references.

Oct. Thursday 15, 1931

Association meeting in Los Angeles this morning. Looked up references in the library in the afternoon and finished all they had.

Returned to San Diego on the 9³⁰ train.

1931

Friday 16,

Oct.

Got some work done on the dance
paper. Not feeling well so went to a
more.

Oct. Saturday 17, 1931

not well this afternoon but
got some miscellaneous work
done.

1931

Sunday 18,

Oct.

Except for a movie in the evening spent the day on the Snake dance; particularly the bibliography.

Oct. Monday 19, 1931

Anake dance bibliography

1931 Tuesday 20, Oct.

Some work on snake dance.

Went to Al Cayin today. 30 miles. clear
+ cool. Out Broadway, back Fletcher Hills.
Nothing seen except crushed toads.
It had rained early in the week.

Oct. Wednesday 21, 1931

Began work tonight in earnest
on the bibliography of the rattlesnake —
rattle paper.

1931 Thursday 22, Oct.

Oct. Friday 23, 1931

1931 Saturday 24, Oct.

Spent the afternoon on the bibliography
of the rattles paper.

Oct. Sunday 25, 1931

Spent most of the day on the bibliography of the rattlesnake paper and a few other odd jobs.

The snake dance paper is still held up awaiting the Fewkes-Walpi paper from Washington.

1931 Monday 26, Oct.

Oct. Tuesday 27, 1931

Today went to ^{Roosevelt's Birthday} Riverside with
Wess. A warm day. Started at
7 AM returned (via Corona, Santa Ana
Canyon and the Coast Highway) at
5:30.

One small red rattler DOR brush,
Red Mt grade.

One large gopher DOR grass,
Cycamore Canyon.

1931 Wednesday 28, Oct.

Oct. Thursday 29, 1931

First of 396 rattlers arrived
from Perkins.

1931

Friday 30,

Oct.

A check of the reptiles collected
by Walker

345 lizards @ 5¢ =	17 ²⁵
6 snakes @ 50¢ =	3 -
	<hr/> 20 ²⁵

Balance of rattlers arrived from
Perkins.

Oct. Saturday 31, 1931

This afternoon amongst other misc. work I checked over the American Naturalist up to and including Vol. 21 for rattle references.

Put my nose in the center cage with 394 rattlers today to check that famous odor. Even in this closed space it was barely noticeable and what there was was probably fresh excreta.

Fetid odor of *Confluenteria* in breeding season. Brons. Am. Nat. 16: 566 (1882)
in Le Conte. Proc. Phila. Acad.

1853 Vol. 6., p. 419 he avers odor very strong, while Beauvois denies it.

1931 Sunday 1, Nov.

Spent practically all day
on bibliographic work for Rattle
papers.

Went to L.A. on evening train.

Rattles exhibited at the Zoo
today. no crowd - no advertisement.

Nov. Monday 2, 1931

Returned from Los Angeles on the late evening train.

Had time in the late afternoon to check a couple of references at the L.A. Public library.

1931 Tuesday 3, Nov.

Today I recd ^{Election Day} from E.R. Tinkham,
St. Paul, Minn the following rattlesnake
records

Crotalus ruber 2 mi. N. of San Ysidro

C. atrox Saucedo Mts. 20 mi. S. of
Gila Bend.

C. cerastes, Mohawk.

C. tigris, Tucson Range, 6 mi. W.
of Tucson.

C. oreganus? (black rattler) 6 mi. S.E.
of Oracle, Oak Zone.

C. lepidus, Franklin Mts, near El
Paso

C. lepidus } Mt. Livermore, alt. abt.
C. molossus } 8400 ft., Davis Mts, Tex

Nov. Wednesday 4, 1931

1931 Thursday 5, Nov.

Milked 121 yearling Perkins
snakes tonight. also got some
weights

Button

$$\frac{1185 \text{ g}}{91} = 13.04 \text{ g.}$$

Button + 1 rattle

$$\frac{514}{29} = 17.7 \text{ g.}$$

Button + 2 rattles

$$\frac{28}{1} = 28 \text{ g.}$$

Nov.

Friday 6,

1931

1931 Saturday 7, Nov.

Went to Los Angeles today to the Stanford - USC game. Started at 6⁴⁰. A cold drizzly morning. Nothing seen.

Returned starting from Long Beach at about 7³⁵. South of Laguna a good many toads were seen dead and hopping on the road, but the only one picked up (we had no flash light) was a *Hyla regilla* at San Onofre.

Nov. Sunday 8, 1931

Worked hard all day today
on the Snake dance paper. Looked
as if it never would be satisfactory

Cook pickling small Platteville
rutters.

1931 Monday 9, Nov.

Milked a few snakes this noon.

Nov. Tuesday 10, 1931

Milked 103 Platteville rattlers at the zoo this noon. Segregated by size into 4 groups. Call these series A.
Noted a sidewinder today from Petrified Forest, Imperial Co.

1931 Wednesday 11, Nov.

Armistice Day

Milked 161 Platteville rattlers this morning. Refer to these as Series B.

59	450 - 650 mm
62	650 - 750 "
33	750 - 850 "
7	850 - 1050 "
<hr/> 161	

Series B are now all in central cage at Zoo. Series A are all in the basement - some killed today.

The juveniles to the number of 124 are now all pickled.

Worked all afternoon on the Snake Dance paper. Think it is now finished except for a few odds and ends and references. Made the selections and arrangements for Appendix 1 today.

Nov. Thursday 12, 1931

1931

Friday 13,

Nov.

Nov. Saturday 14, 1931

Miscellaneous filing and recording this afternoon. The Snake dance paper is finally finished and copied. There are a few bibliographic references still to pick up.

Cook still working on Series A. Platteville rattlers.

1931 Sunday 15, Nov.

Cook finished Series A and started series B.

I worked all day-to day on an outline of the rattle paper assembling and coördinating points previously noted for treatment.

Nov. Monday 16, 1931

Talked to Fellows of Nat. Hist. Soc.
tonight on Snake Dance.

1931 Tuesday 17, Nov.

Nov. Wednesday 18, 1931

Started for San Francisco today
Drove as far as Los Angeles.
A clear cold day. Nothing seen.
Started at 140. Had two blow outs.

1931 Thursday 19, Nov.

Attended meetings in San Francisco
this morning. Worked at Cal. Acad.
Library in the afternoon; S. F. Public
in the evening.

Nov. Friday 20, 1931

Mercantile library for a short
time until 9⁴⁰ A.M. Then business
until 4 P.M. Then U.C. library
at Berkeley until 9³⁰ P.M.

1931 Saturday 21, Nov.

Stanford library this morning.
Stanford-U.C. game in the afternoon.

Nov. Sunday 22, 1931

Worked from 11 to 3 PM today
in Dickey's library in Cal. Tech.
Then drove home arriving at 7 P.M.
Very cold. Nothing seen. Dark all
the way in S.D. County.

1931 Monday 23, Nov.

Mrs. Benchley advised me today that the Zoo would ~~plan~~ publish the Snake dance paper.

Shipped today to J.R. Pemberton miscellaneous material including 2 single shot rifles and a pistol for his trip to the Gulf of California.

Nov. Tuesday 24, 1931

Went to El Cajon this noon
to the Rotary Club. A clear cold
day; 30 miles; nothing seen.

1931 Wednesday 25, Nov.

M.E. Sperry writes as of about this date: "Had ice last night and was a cold day for here; caught him (a large Scute) at 1 P.M. having a sun bath"

He threw up a small rodent looked like a ground squirrel. Digestion just begun.

Nov. Thursday 26, 1931

Worked all morning and evening
on the final overhaul of the Snake dance
papers. ^{Thanksgiving Day} Gined's at noon.

Cook today completed the pickling
of the Platteville specimens.

1931

Friday 27,

Nov.

Pertin's arrived from Denver today.

The printer advised that about half of the Snake dance paper had been set up (by mistake) before the final corrections were made.

Nov. Saturday 28, 1931

Spent most of the afternoon outfitting Perkins for his trip.

Recd today from the printer the first 15 galley pages of proof of the Snake dance paper. Gave it the first checking tonight.

1931 Sunday 29, Nov.

Morning was spent on proof of
Snake dance paper; afternoon with
Perkins; evening with Snake dance
again until 11¹⁵

Nov. Monday 30, 1931

Went to San Francisco on business
this afternoon

1931 Tuesday 1, Dec.

In San Francisco.

Dec. Wednesday 2, 1931

In San Francisco

1931 Thursday 3, Dec.

In San Francisco. Saw Stern this
afternoon

Dec. Friday 4, 1931

In San Francisco.

1931 Saturday 5, Dec.

Returned to S.D. from San Francisco
this noon.

Dec.

Sunday 6,

1931

Spent the day on misc. checking and filing to catch up. Selected specimens for exchanges.

Cook finished putting away the Platteville series.

1931

Monday 7,

Dec.

Rattle bibliography

Dec. Tuesday 8, 1931

Philharmonic

1931 Wednesday 9, Dec.

Rattle bibliography

Today I heard of the following
Arkansas localities of atrox from
RM Perkins.

White Co, near Beebe (specimen recd)

Piggott

Perry Co

Saline Co, 25 mi W. of Little Rock.

Dec. Thursday 10, 1931

1931

Friday 11,

Dec.

Dec. Saturday 12, 1931

Worked on the rattle bibliography in the afternoon; out to dinner.

1931 Sunday 13, Dec.

Spent the day and evening getting ready for trip to Chicago.

Dec. Monday 14, 1931

1931 Tuesday 15, Dec.

Started for Chicago this evening.

Dec. Wednesday 16, 1931

At Yucca the country is rolling rough desert like south of Needles. Hard, not sandy; small rocks. Kingman: Hilly rough and rocky. Chuckawalla country. House: A plain with light brush. After crossing a very long plain at Hackberry it is hilly (almost mountainous) rough and rocky. Crosier: Rough and rocky; Truxton: Another plain surrounded by rolling hills and mountains. Beach Springs: Rolling hills; scattered junipers. Seligman: A plain surrounded by rolling hills. Pineveta is a great plain. Ash Fork: A rolling plain; looks like good rattles country.

Worked all day and evening reading second galley proof of Snake dance paper.

1931 Thursday 17, Dec.

Worked all morning on rate case.

Dec. Friday 18, 1931

Arrived in Chicago this morning.

Business all day

Put in the evening at the Chicago
Public Library looking up references

1931 Saturday 19, Dec.

Worked all day today.

Had supper in the evening with K.P.
Schmidt. Talked in the room to 9³⁰

Dec. Sunday 20, 1931

Worked all day. Left Chicago for home in the evening.

1931 Monday 21, Dec.

Today worked on tabulating data
from rattle bibliography by subjects

Dec. Tuesday 22, 1931

Shortest Day

From $\frac{1}{2}$ way between Albuquerque and Las Vegas southward it is upland rolling prairie. Hills in the foreground; mountains in the background patches of snow. Farms in the valley. This is one hour out of Albuq. There are trees in the river washes; scattered light brush on the prairie. Plenty rocks on the hillsides and bluffs. Puebles villages. At Bernalillo the valley is quite wide and flat.

South of Albuquerque the valley is broad and level; cold with frost. At Isleta still a dry valley; light brush and grass on the hills at the right.

After leaving the valley we reach a rolling prairie with a few scattered rock outcrops. The brush is quite low—mostly bunch grass. Sandia: Upland rolling prairie; bunch grass. Dalies: Rolling prairie; sparse vegetation; scattered sage brush; evidently quite sandy. This particularly evident in railroad cut. Ice in pools. Rio Puerco: Hard red soil; bunch grass and low brush; hilly; mts. near by. North Garcia: Rough and rocky hills; alkali flats; sandstone. Some ground red, some not. South Garcia: Very red. High prairie; hills in the distance. Sparse vegetation.

1931 Wednesday 23, Dec.

Returned from Chicago at noon today.

This afternoon Paxton C. Hayes came to see me about his proposed snake reserve. Told him definitely that I did not want my name used in connection therewith.

Marmou: High rocky prairie; some red; some yellow sandstone. Quite barren, bunch grass; mts. and buttes in the distance. Didn't see Puavance but hadn't seen anything particularly different for some time. Not sandy like Dalies. Now come to some fine red sandstone bluffs. Also black sandstone. Now we come to junipers, ~~scattered~~. This is Quik. There is plenty of rocky country here, mixed with flats. Mostly black and ^{or} yellow sandstone here; no red; junipers in the hills. New Laguna: Rocky hills with junipers to the north; a brushy, somewhat sandy valley to the south; not red; brush moderately high; patches of snow. This valley is quite large. The soil seems loose, not sandy as at Dalies. Culvero: same. Aconita: Valley has narrowed. Rocky bluffs of yellow sandstone on each side [cont next page]

Dec. Thursday 24, 1931

McCartys: Valley has again widened. Some junipers; light brush; rocky bluffs in the distance; snow patches; soil not red. Grants: Just of here there is a very large grassy valley; much snow; can't tell if it is sandy or not. There is much black rock toward the west. Surrounded by hills open to the south as far as can be seen. Junipers in the hills. Grant is quite a town; kids skating on ice. Then we go again along a narrow valley; soil getting redder. Toltec: Another large valley, snow covered now. Blue water: Another great valley, rolling, with rock outcrops. Baca still a great valley with red sandstone bluffs in the distance. This whole country is high valleys, bluffs and mountains; junipers and bunch grass. Rock outcrops. Thorvau: Still the same kind of country; plenty of snow on the ground; yellowish-red soil; rocky hills in the distance, red as usual. We then cross a pass; the junipers are large like Winona. Pera somewhat lower; no junipers; a rolling snow covered valley, surrounded by red bluffs. Wingate: A somewhat smaller valley surrounded by red bluffs. McCartys: Fort Wingate bldgs to be seen to the south.

1931

Friday 25,

Dec.

Zuni: Very high red bluffs to the north; red soil; sparse vegetation. ^{Christmas Day} Gallup: Rocky bare yellow sandstone. The country just east of Gallup is small sagebrush valleys surrounded by yellow sandstone hills. Manuelito: A narrow valley between yellow sandstone bluffs; a pine or two; plenty of snow. At Ariz-N.M. State Line, same; a narrow valley, sandstone cliffs; deep snow; junipers x Lupton; ditto x. Beyond Lupton the ground gets red. Ditto Allantown. Howck: Valley a little wider, otherwise the same. The soil is reddish. Querino: narrow valley; red soil; sandstone on hills; plenty junipers. A wider valley at Cheto otherwise the same; at Chambers there is quite a prairie off to the north. Soil probably red. At Navaho the hills are gentle in the distance. The country is a slightly rolling prairie. Little Colo. River to the south. Snow lighter; low brush; red brown soil. Pinta: A wide river valley with rocky banks. Red outcrops. Beko: A sagebrush prairie with yellow sandstone outcrops. Adamana: Grass prairie; some low brush. Red brown soil; little snow. Carrizo: River bottom; rocky outcrops & prairie. Arntz: Same.

Dec. Saturday 26, 1931

Brush prairie; red soil. Joseph City: Same higher brush; Manila: Same prairie. Havre: Red soil; bunch grass prairie; Hobson: Same. Winstlow: Red soil; rather barren prairie; no snow. Dennis: Soil quite red; a little snow. Sunshine: The red outcrops cease and yellow small scattered sandstone begins. The ground is brown; there is little snow. Canyon Diablo: The soil is dark brown and there is much broken sandstone on the ground. The prairie is grassy with small bushes. Hubbard: Grass and small brush prairie. Yellow rocks; dark grey soil. Angell: Large junipers here; plenty snow; sandstone scattered on the ground.

Pinevata is in the midst of a great plain. Only a few small junipers showing through the snow. Greed is a rough country; snow covered. A great hillside with scattered small trees and a great plain below. Saw the sign this time after missing it last two trips.

Worked all afternoon on annual tabulations. Made good progress.

1931 Sunday 27, Dec.

This morning I made the first draft of the Anniella paper for Copeia. Had to work at the office in the afternoon a/c pending rate hearing.

The present is not a good time to undertake highly involved papers because of the rate case. Can only work odd hours and it is difficult to drop and pick up complicated problems.

At present the status of unpublished papers is as follows:

Hoover Dam: In Copeia's hands over 6 months

Snake Dance: Second galley proof returned with corrections to printer yesterday.

Anniella: First draft finished today

Rattle: Outline complete. Bibliography largely complete. Measurements available but not coordinated. Bibliography references listed by subject.

Santa Fe Rattlers: Statistics compiled.

Locality Bibliography: Introduction and outline prepared. Scope discussed with Schmidt.

Dec. Monday 28, 1931

The status of work other than papers as of this date is as follows:

Annual reports to Zoo and NH are ready to write, the statistical data having been compiled. This includes the San Diego County Snake table which is the hardest to work up.

The card files are complete to the mid-year. Philip will enter the trip and collection catalogues on the cards next week. After this the San Diego County maps (except snakes which are complete) and the Imperial County maps are to be completed.

Donn stairs Cook has nearly all the rattlers complete, except for about one dozen. This statement however does not apply to the latest 394 rattlers from Platteville. On these the measurements and rattles are complete. It is doubtful if the others scale counts will be made, at least for the present.

Recd today a very encouraging letter from Prof. E. T. Bell re originality of my Triangle of primes

1931 Tuesday 29, Dec.

Working hard today on the
rates case.

Dec. Wednesday 30, 1931

Working hard today on the rate case.

1931 Thursday 31, Dec.

Spent the evening on the paper
on the triangle arrangement of
numbers.

Notes For 1932

Memoranda

Memoranda

Memoranda

Memoranda

Memoranda

JANUARY CASH

REC'D

PAID

FEBRUARY—CASH

REC'D

PAID

MARCH—CASH

REC'D

PAID

APRIL—CASH

REC'D

PAID

MAY- CASH

REC'D

PAID

JUNE—CASH

REC'D

PAID

JULY—CASH

REC'D

PAID

AUGUST—CASH

REC'D

PAID

SEPTEMBER—CASH

REC'D

PAID

OCTOBER—CASH

REC'D

PAID

NOVEMBER—CASH

REC'D

PAID

DECEMBER—CASH

REC'D

PAID

SUMMARY—CASH

REC'D

PAID

Cash on hand Jan. 1st

January

February

March

April

May

June

July

August

September

October

November

December

Total

Balance to new Acc't

POSTAGE

CLASSIFICATION	DOMESTIC	FOREIGN
Letters, First Class Matter.....	2c. per oz. ^{oo}	o
Post Cards (Private)	1c. each	o
Postal Cards (Government)	1c. each	o
Newspapers, Magazines, Periodicals	1c. for each 2 ozs.	o
Circulars and miscellaneous printed matter, also mdse.	1½c. for each 2 ozs.†	o
Merchandise, catalogs, etc., over 8 ozs....	Zone rates apply	o

REGISTRY FEE. In addition to postage, Foreign 10c. Domestic first-class and sealed fourth-class mail prepaid with first-class postage, indemnified for \$50.00 or less, fee 15c.; \$100.00 or less, 20c. Return receipt 3c. extra. Indemnity limited to \$1000.00, see P. O. for other rates.

^{oo}Drop letters, 1c. per oz.

†The rate on printed books or catalogs having 24 or more pages, seeds, bulbs, etc., weighing 8 ozs. or less, is 1c. for each 2 ozs. or fraction thereof.

°For foreign rates and conditions, inquire at Post Office.

DOMESTIC: SPECIAL DELIVERY. - First-class. - A special delivery stamp or ten cents' worth of ordinary stamps and the words "Special Delivery" marked on the envelope or wrapper, in addition to the regular postage, secures the special delivery of any piece of mailmatter weighing not more than 2 lbs., including parcel post packages, within one mile of any U. S. post office. On mail matter weighing more than 2 lbs., but not more than 10 lbs., 20c.; over 10 lbs., 25c.

REFORWARDING. - First-class matter (Letters, postal cards, etc.) will be forwarded without extra postage. Other matter requires a new prepayment of postage.

Mail matter for Hawaii, Porto Rico, the Phillipines, The Island of Guam and Tutuila, the "Canal Zone", and the Virgin Islands of the U. S., is subject to domestic rates and conditions.

AIR MAIL. Where air routes are established rate is 5c. for first oz. or fraction thereof and 10c. for each additional oz. or fraction thereof. Mailable matter of any class not liable to freezing may be sent. Must be plainly marked "VIA AIR MAIL". Fifty lbs. maximum weight.

DOMESTIC PARCEL POST. - Merchandise may be sent by domestic parcel post, the rates depending on weight and distance, concerning which inquire at Post Office.

REQUIREMENTS. - Sender's name and address must appear on package - otherwise unmailable; parcels over four ounces must be mailed at Post office or places designated - not in street boxes; contents easily examined; limit of size, 84 inches in length and girth combined.

SPECIAL HANDLING. - 10c. postage affixed to a parcel, in addition to the regular postage charges, with the words "Special Handling" written or printed on the wrapper, secures the same expeditious handling of a fourth-class article not more than 2 lbs., as accorded first-class mail, over 2 and up to ten lbs., 15c.; over 10 lbs., 20c.

C. O. D. - Goods may be sent C. O. D. by parcel post. On amounts not exceeding \$10.00, the fee is 12c.; not exceeding \$50.00-15c.; \$100.00-25c., collected and returned to the sender. Fee also insures the parcel.

POSTAL SAVINGS. - Money may be deposited to individual accounts at offices which have been designated as Postal Savings Offices, and interest is paid at the rate of 2 per cent, per annum on deposits.

DOMESTIC MONEY-ORDER FEES. - For orders from \$0.01 to 2.50-5c.; \$2.51 to \$5.00-7c.; \$5.01 to \$10.00-10c.; \$10.01 to \$20.00-12c.; \$20.01 to \$40.00-15c.; \$40.01 to \$60.00-18c.; \$60.01 to \$80.00-20c.; and \$80.01 to \$100.00-22c.

Subject to change after going to press

CALENDAR FOR 1932

1932	S	M	T	W	T	F	S	1932	S	M	T	W	T	F	S
Jan.	..	..	..	..	..	1	2	July	..	..	..	..	..	1	2
	3	4	5	6	7	8	9		3	4	5	6	7	8	9
	10	11	12	13	14	15	16		10	11	12	13	14	15	16
	17	18	19	20	21	22	23		17	18	19	20	21	22	23
	24	25	26	27	28	29	30		24	25	26	27	28	29	30
	31	..	..	..	..	..	..		31	..	..	..	..	..	..
Feb.	..	1	2	3	4	5	6	Aug.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13		7	8	9	10	11	12	13
	14	15	16	17	18	19	20		14	15	16	17	18	19	20
	21	22	23	24	25	26	27		21	22	23	24	25	26	27
	28	29	..	..	..	..	..		28	29	30	31	..	..	..
Mar.	..	..	1	2	3	4	5	Sept.	..	..	..	..	1	2	3
	6	7	8	9	10	11	12		4	5	6	7	8	9	10
	13	14	15	16	17	18	19		11	12	13	14	15	16	17
	20	21	22	23	24	25	26		18	19	20	21	22	23	24
	27	28	29	30	31	..	..		25	26	27	28	29	30	..
Apr.	..	..	..	..	..	1	2	Oct.	..	..	..	..	..	1	..
	3	4	5	6	7	8	9		2	3	4	5	6	7	8
	10	11	12	13	14	15	16		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		16	17	18	19	20	21	22
	24	25	26	27	28	29	30		23	24	25	26	27	28	29
									30	31	..	..	..	..	..
May	1	2	3	4	5	6	7	Nov.	..	..	1	2	3	4	5
	8	9	10	11	12	13	14		6	7	8	9	10	11	12
	15	16	17	18	19	20	21		13	14	15	16	17	18	19
	22	23	24	25	26	27	28		20	21	22	23	24	25	26
	29	30	31	..	..	..	..		27	28	29	30	..	..	..
June	..	..	..	1	2	3	4	Dec.	..	..	..	..	1	2	3
	5	6	7	8	9	10	11		4	5	6	7	8	9	10
	12	13	14	15	16	17	18		11	12	13	14	15	16	17
	19	20	21	22	23	24	25		18	19	20	21	22	23	24
	26	27	28	29	30	..	..		25	26	27	28	29	30	31

